Academic Curriculum Vitae

Personal details:

Name: Rostam Kareem Saeed **Family Name:** Saeed

Date and Place of Birth: 1st July 1964 - Erbil- Iraqi.

Marital Status: Married, Three children **Scientific Rank:** Professor

Home Address: No. 79 Zanco Village, Erbil, Iraq

Telephone no. Erbil: +964 750 4512698 (Mobile)

E-mail: rostam.saeed@su.edu.krd;   rostamkarim@yahoo.com

Education:

16-5-2006 Awarded **PhD** in Mathematics *(Numerical Analysis),* Department of Mathematics, College of Science, Salahaddin University/Erbil, Iraq

   Ph.D. Thesis:
      Supervisor: Assistant Professor Dr. Omer M. Al-Faour,
         Title: Computational Methods for Solving System of linear Volterra Integral and Integro-differential Equations

23- 6-1990 Awarded M.Sc. in Mathematics *(Numerical Analysis),* Department of Mathematics, College of Science, Salahaddin University/Erbil, Iraq.

   M. Sc. Thesis:
      Supervisor: Assistant Professor Dr. K. B. Srivastava,
         Title: A study of Lacunary interpolation by Splines.

2-7-1987 Awarded **B.Sc.** in Mathematics, Department of Mathematics, College of Science, Salahaddin University/Erbil, Iraq.

1981-1982 Awarded **Baccalaureate**, Azadi Secondary School, Erbil, Iraq

Employment:

12-5-2009 till date: Professor of Mathematics *(Numerical Analysis),* Department of Mathematics, College of Science, Salahaddin University/Erbil, Iraq.

24- 12-2000-30-5-2004: Dean of College of Science, Salahaddin University/Erbil, Iraq.

25- 7-2000-11-5-2009: Assistant Professor of Mathematics *(NumericalAnalysis),* Department of Mathematics, College of Science, Salahaddin University/Erbil, Iraq.

2000-till date: Supervising 13 M.Sc. students and 2 PhD students in Department of Mathematics, College of Science, Salahaddin University/Erbil, University of Sulaimani and Dohuk University, Iraq.

1998-2000: Assistant Dean of College of Science, Salahaddin University/Erbil, Iraq.

1997-1998: Manager of Computer Unite, College of Science, Salahaddin University/Erbil, Iraq.

1994: Lecturer, Department of Mathematics, College of Science, Salahaddin University/Erbil, Iraq.

1991-1994: Coordinator of Department of Mathematics, College of Science, Salahaddin University/Erbil, Kurdistan, Iraq.

1991: Assistant lecturer, Department of Mathematics, College of Science, Salahaddin University/Erbil, Iraq.

Qualifications

-   Teaching qualifications:

- IT qualifications: **Microsoft Office, Matlap, Maple, Paython**
- Language qualifications such as TOEFL, IELTS or any equivalent
- Any professional qualification
- You could put any professional courses you have attended

Teaching experience:

(1) Approximation theory,   (2) Numerical Analysis,   (3) Integral equation,
(4) Linear Algebra,   (5) Functional Analysis,   (6) Finite Mathematics,
(7) Calculus I, II,   (8) Numerical Linear Algebra

Research Publications

1. Nawzad M. Ahmed, Fazlollah Soleymani, Rostam K. Saeed, Numerical investigation of high-dimensional option pricing PDEs by utilizing a hybrid radial basis function - finite difference procedure, Engineering Analysis with Boundary Elements 163 (2024) 211–222.

2. Saman A. Baper, Kawa M. A. Manmi, Rostam K. Saeed, Abdolrahman Dadvand, Oscillation of an ultrasonically driven gas bubble in an asymmetric confined domain, International Journal of Mechanical Sciences, 265(2024)108861.

3. Davron A. Juraev, Ebrahim E. Elsayed, Juan J. D. Bulnes, Praveen Agarwal, Rostam K. Saeed, History of ill-posed problems and their application to solve various mathematical problems, Engineering Applications, 2023, 2(3), 279-290.

4. Sarfraz H. Salim , Karwan H.F.Jwamer, Rostam K. Saeed, Solving Volterre-Fredholm integral equations by natural cubic spline function, Bulletin of the Karaganda University, Mathematics series. No. 1(109)/2023, 124-130, DOI 10.31489/2023M1/124-130

5. Sarfraz H. Salim, Rostam K. Saeed and Karwan H.F.Jwamer, Solving Volterra-Fredholm integral equations by quadratic spline function**,** Journal of Al-Qadisiyah for computer science and mathematics , Vol. 14, No.4 (2022), 10-19.

6. P. Senthil Kumar, P. Thiruveni, Rostam K. Saeed, Fuzzy Fixed-Point Theorems for $\gamma-$ Weak Contractive Mappings in 3 Metric Spaces**,** JOURNAL OF ALGEBRAIC STATISTICS, Vol. 13, No. 2(2022), 723 - 729.

7. Sarfraz H. Salim, Rostam K. Saeed and Karwan H.F.Jwamer, Solving Volterra-Fredholm integral equations by linear spline function**,** Global and Stochastic Analysis, Vol. 9, No.2 (2022), 99-107.

8. Rebwar S. Mohammed, Rostam K. Saeed, Davron A. Juraev, New Algorithm for Computing Adomian's Polynomials to Solve Coupled Hirota System, Journal of Zankoy Sulaimani-Part A for pure and Applied Sicences, Vol.24, No.1 2022, 38-54.

9. Kawa Manmi, Imad Aziz, Arun Arjunan, Rostam K. Saeed, Dadvand Abdolrahman, Three-dimensional oscillation of an acoustic microbubble between two rigid curved plates, Journal of Hydrodynamics, Vol.33, No. 5 (2021), 1019-1034.

10. K. A. Berdawood, A. Nachaoui, Rostam K. Saeed, M. Nachaoui, F. Aboud, An efficient D-N alternating algorithm for solving an inverse problem for Helmholtz equation, Discrete and Continuous Dynamical Systems Series S, Vol.15, No. 1, 2022, pp. 57-78, doi:10.3934/dcdss.2021013.

11. K. A. Berdawood, A. Nachaoui, Rostam K. Saeed, M. Nachaoui, F. Aboud, An alternating procedure with dynamic relaxation for cauchy problems governed by the modified helmholtz equation, Advanced Mathematical Models & Applications, Vol.5, No.1, 2020, pp. 131-139.

12. Fazlollah Soleymani, Fuad W. Khdhr, Rostam K. Saeed , Javad Golzarpoor, A family of high order iterations for calculating the sign of a matrix, Mathematical Methods in the Applied Sciences, Vol.43, No.14, (2020), pp. 8192–8203.

13. P.Senthil Kumar, A.Arul Selvi and Rostam K. Saeed, Finding the Invariant Measure of Water Level in Mettur Dam Under Stochastic Averaging, International Journal of Advanced Science and Technology, Vol. 29, No.4s, (2020), pp. 2202 - 2211.

14. T. Aparna, P.Senthil kumar and Rostam K. Saeed, Analyzing Inflow and Outflow of Water in Mettur Dam during the Year 2013-2014 Using Symmetric and Skew Processes, International Journal of Advanced Science and Technology, Vol. 29, No.4, (2020), pp.458-477.

15. Imad A. Aziz, Kawa M.A. Manmi, Rostam K. Saeed, Abdolrahman Dadvand, Modeling three dimensional gas bubble dynamics between two curved rigid plates using boundary integral method, Engineering Analysis with Boundary Elements 109 (2019) 19-31.

16. P. Senthil Kumar, P. Bharathi Kannammal and Rostam K. Saeed, Stochastic model for the gaussian fields and gaussian sheets with generalized cauchy covariance structure of salivary alpha amylase - cortisol dissymmetry in maltreated youth, The International journal of analytical and experimental modal analysis; Volume 11, Number 8, August/2019, 990-994.

17. P. Senthil Kumar, D. Thamaraiselvi and Rostam K. Saeed, Prediction of GM(1,1) Markov model in ghrelin induced growth hormone secretion in human, the international journal of analytical and experimental modal analysis; Volume 11, Number 8, August/2019, 1611-1623.

18. Behzad Ghanbari, Ahmet Bekir, Rostam K. Saeed, Oblique optical solutions of mitigating internet bottleneck with quadratic-cubic nonlinearity, International Journal of Modern Physics B, Vol. 33, No. 20 (2019) 1950224 (18 pages). DOI: 10.1142/S0217979219502242.

19. Fuad W. Khdhr, Fazlollah Soleymani, Rostam K. Saeed, Ali Akgul, An optimized Steffensen--type iterative method with memory associated with annuity calculation, Eur. Phys. J. Plus (2019) 134(4): 146. https:// doi.org/10.1140/ epjp/i2019-12665-3.

20. Fuad W. Khdhr, Rostam K. Saeed and Fazlollah Soleymani, Improving the Computational Efficiency of a Variant of Steffensen's Method for Nonlinear Equations, *Mathematics* 2019, 7(3), 306; https://doi.org/10.3390/ math 7030306.

21. Rostam K. Saeed and Chinar S. Ahmed, Approximate Solution for the System of Nonlinear Volterra Integral Equations of the Second Kind by Taylor Series Expansion, Indian Journal of Natural Sciences, Vol.9, No.53(2019), 17020-17029.

22. Rostam K. Saeed and Andam A. Mustafa, Numerical Solution of Fisher-KPP Equation by Using Reduced Differential Transform Method, AIP Conf. Proc. 1888,020045-1-020045-11(2017); https://doi.org/10.1063 / L5004322

23. Rostam K. Saeed and Mohammed I. Sadeeq, Radial Basis Function-Pseudospectral Method for Solving Non-Linear Whitham-Broer-Kaup Model, Sohag J. Math. Vol. 4, No. 1 (2017), 1-6.

24. Rostam K. Saeed and Mohammed I. Sadeeq, Numerical Solution of Nonlinear Whitham-Broer-Kaup Shallow Water Model Using Finite Difference Methods, Journal of Zancoi Sulaimani-Part A (JZS-A), Vol. 19, No. 1 (2017), 197-210.

25. Rostam K. Saeed and Karzan A. Berdawood, Solving Two-dimensional Linear Volterra-Fredholm Integral Equations of the Second Kind by Using Successive Approximation Method and Method of Successive Substitutions, **Zanco** journal of pure and applied Sciences, Vol.28, No.2 (2016), 35-46.

26. Rostam K. Saeed and Rebwar S. Muhammad, Solving Coupled Hirota System by Using Reduced Differential Transform Method, International Journal of Mathematical Engineering and Science (IJMES), Vol. 5, No. 3 (2016), 16-30.

27. Rostam K. Saeed, Karwan H.F.Jwamer and Delan O. Salem, Some Iterative Methods for Solving Nonlinear Equations, American Journal of Numerical Analysis, Vol. 3, No. 2 (2015), 49-51

28. Rostam K. Saeed and Karzan A. Berdawood, Solving Two-dimensional Linear Volterra-Fredholm Integral Equations of the Second Kind by Using Series Solution Methods, Journal of Zancoy Sulaimani - Part A (JZS-A), Vol.17, No.4 (2015), 251-268.

29. Rostam K. Saeed and Rebwar S. Muhammad, Solving Coupled Hirota System by Using Variational Iteration Method, **Zanco** journal of pure and applied Sciences, Vol. 27, No.6 (2015), 69-80.

30. Rostam K. Saeed and Andam A. Mustafa, Homotopy Analysis Method to solve Glycolysis system in one dimension, **Zanco** journal of pure and applied Sciences, Vol. 27, No.2 (2015), 61-70.

31. Rostam K. Saeed and Rebwar S. Muhammad, Solving Coupled Hirota System by Using Homotopy Perturbation and Homotopy Analysis Methods, Journal of Zancoi Sulaimani-Part A (JZS-A), Vol. 17, No. 2 (2015), 201-2017.

32. Rostam K. Saeed and Andam A. Mustafa, Laplace decomposition and Semigroup decomposition methods to solve

Glycolysis system in one dimension, International Journal of Mathematical Engineering and Science (IJMES), Vol. 3, No. 2 (2014), 35-53.

33. Rostam K. Saeed and Jabar S. Hassan, Solving Singular Integral Equations by Using Collocation, Math. Sci. Lett., Vol. 3, No. 3 (2014), 185-187. (Impact Factor: 0.625)

34. Rostam K. Saeed, Karwan H-F. Jwamer and Khelan H. Qader, Spectral Properties of Second Order Differential Equations With Spectral Parameter in The Boundary Conditions, Math. Sci. Lett. Vol. 3, No. 1 (2014), 65-69.

(Impact Factor: 0.625)

35. Karwan H-F. Jwamer and Rostam K. Saeed, (0, 1, 3) lacunary interpolation with spline of degree six, Journal of Applied and Industrial Sciences, April, Vol.1, No. 1 (2013), 21-24. (Impact Factor: 0.647)

36. Rostam K. Saeed and Kawa M. Aziz, Iterative methods for solving nonlinear equations by using quadratic spline function, Mathematical Sciences Letters, Vol. 2, No.1 (2013), 37-43. (Impact Factor: 0.625)

37. Rostam K. Saeed and Shno O. Ahmed, Modified iterative method for solving nonlinear equation, Journal of Kirkuk University-Scientific studies, Vol. 7, No. 1 (2012), 146-152.

38. Saad A. Manaa, Rostam K. Saeed and Fadhil H. Easif, The finite difference methods and its stability for Glycolysis model in one dimension, Journal of Mathematical and Computational Science, Vol.2, No. 6 (2012), 1634-1645. .(Impact Factor: 0.436)

39. Abbas Y. Al-Bayati, Rostam K. Saeed and Kawa M. Aziz, Romberg algorithm to solve a System of Nonlinear Fredholm Integral Equations of Second Kind, Al-Raf. J. of Comp. & Math's. , Vol. 9, No. 2 (2012).

40. Rostam K. Saeed, Faraidun K. Hamasalh and Gulnar W. Sadiq, Convergence of Ninth Spline Function to the Solution of a System of Initial Value Problems, World Applied Sciences Journal, Vol. 16, No. 10 (2012), 1360-1367.

41. Mehdi H. Mahmud and Rostam K. Saeed , Numerical Solution of System of Two-Dimensional Linear Fredholm Integral Equations of the Second Kind by Adomian Decomposition Method, Proceeding of the 4th International scientific conference of Salahaddin University-Erbil, October 18-20, Vol.1 of 4 (2011), 31-34.

42. Rostam K. Saeed and Fuad W. Khthr, New third-order iterative method for solving nonlinear equations, Journal of Applied Sciences Research, Vol. 7, No. 6 (2011), 916-921. (Impact Factor: 0.32)

43. Rostam K. Saeed and Botan M. Rahman, Differential transform method for solving system of delay differential equation, Australian Journal of Basic and Applied Sciences, Vol. 5, No. 4 (2011), 201-206.

44. Saad A. Manna; Rostam K. Saeed and Fadhil H. Eisf, Numerical Stability of Brusselator system. Raf. J. of Comp. & Math's. , Vol. 8, No. 2 (2011), 43-53.

45. Rostam K. Saeed, Six Order iterative method for solving nonlinear equations, Word applied Sciences Journal, Vol. 11, No. 11 (2010), 1393-1397.

46. Saad A. Manna; Rostam K. Saeed and Fadhil H. Eisf , Numerical solution of Brusselator model by finite difference method, Journal of Applied Sciences Research, Vol. 6, No. 11 (2010), 1632-1646.

47. Saad A. Manna; Rostam K. Saeed and Fadhil H. Eisf , Numerical solution of Brusselator model by finite element method, Journal of Duhok University, Vol. 13, No.1 (2010).

48. Abbas Y. Al-Bayati, Rostam K. Saeed and Faraidun K. Hama-Salh, Construction of Lacunary sextic spline function interpolation and their Applications, journal of Education and Science,Vol.23, No.3 (2010), 108-115.

49. Rostam K. Saeed; Saad A. Manna and Fadhil H. Eisf , Numerical solution of Brusselator model by Expansion methods, Australian Journal of Basic and Applied Sciences, Vol. 4, No. 8 (2010), 3389-3403.

50. Rostam K. Saeed and Botan M. Rahman, Adomian decomposition method for solving system of delay differential equation, Australian Journal of Basic and Applied Sciences, Vol. 4, No. 8 (2010), 3613-3621.

51. Rostam K. Saeed and Fuad W. Khthr, Three new iterative methods for solving nonlinear equations, Australian Journal of Basic and Applied Sciences, Vol. 4, No. 6 (2010), 1022-1030.

52. Rostam K. Saeed and Hassan M. Sdeq, Solving a system of linear Fredholm fractional integro-differential equations using homotopy perturbation method, Australian Journal of Basic and Applied Sciences, Vol. 4, No. 4 (2010), 633-638 .

53. Abbas Y. Al-Bayati, Rostam K. Saeed and Faraidun K. Hama-Salh, Lacunary Interpolation by Quartic splines with Application to Quadratures, International Journal of Open Problems in Computer Science and Mathematics, Vol. 2, No. 3 (2010), 315-328.

54. Abbas Y. Al-Bayati, Rostam K. Saeed and Karwan H. Jwaner, The existence, uniqueness and upper bounds for errors of six degree spline interpolating the lacunary data (0,2,5), Raf. J. of Comp. & Math s. , Vol. 7, No. 2 (2010), 49-53.

55. Rostam K. Saeed and Shno O. Ahmed, Two improvements of Super-Halley method for solving nonlinear equations, (JDU) Journal of Dohuk University, (2009).

56. Rostam K. Saeed and Shno O. Ahmed, A new fourth-order iterative method for solving nonlinear equations, **Zanco** journal of pure and applied Sciences, Vol. 21, No.5, (2009).

57. Abbas Y. Al-Bayati, Rostam K. Saeed and Faraidun K. Hama-Salh, Computational quintic C^4- lacunary spline interpolation algorith for solving second-order initial value problems, journal of applied sciences research, Vol.5 No.7 (2009), 733-740.

58. Abbas Y. Al-Bayati, Rostam K. Saeed and Faraidun K. Hama-Salh, The Existence, Uniqueness and Error Bounds of Approximation Splines Interpolation for Solving Second-Order Initial Value Problems, Journal of mathematics and statistics, Vol.5, No. 2 (2009), 123-129.(Impact Factor: 0.76)

59. Rostam K. Saeed and Mehdi H. Mahmud, Solution of a system of two-dimensional linear Fredholm integral equation of the second kind by quadrature methods, Australian Journal of Basic and Applied Sciences, Vol.3, No.3 (2009), 1701-1715.

60. Rostam K. Saeed and Chinar S. Ahmed, Approximate Solution for the System of Nonlinear Volterra Integral Equations of the Second Kind by Weighted Residual Methods, Journal of Kirkuk University -Scientific Studies, Vol.5, No.1 (2009).

61. Rostam K. Saeed, Homotopy perturbation method for solving system of nonlinear Fredholm integral equations of the second kind, Journal of Applied Science Research, Vol.4, No.10 (2008), 1166-1173.

62. Rostam K. Saeed and Chinar S. Ahmed, Numerical Solution of the System of linear Volterra Integral Equations of the Second Kind using Mote-Carlo Method, Journal of Applied Science Research, Vol.4, No.10 (2008), 11741183.

63. Rostam K. Saeed and Chinar S. Ahmed, Approximate Solution for the System of Nonlinear Volterra Integral Equations of the Second Kind by using Block-by-Block Method, Australian Journal of Basic and Applied Sciences, Vol. 2, No. 1 (2008), 114-124.

64. Rostam K. Saeed and Kawa M. Aziz, An iterative method with quartic convergence for solving nonlinear equations, Applied Mathematics and Computation, USA, Vol.202 (2008), 435-440. (Impact Factor: 1.454)

65. Rostam K. Saeed and Ahmed M Sabir, A study of joint numerical range, J. Duhok Univ., Vol. 11, No.2 (2008), 55-58.

66. Rostam K. Saeed and Kawa M. Aziz, Approximate Solution of the System of Nonlinear Fredholm Integral Equations of the Second Kind Using Spline Function, Journal of Kirkuk University-Scientific Studies, Vol.3, N0. 1 (2008), 113-128.

67. Rostam K. Saeed, Solution of a System of Linear Fredholm Integral Equations of the Second Kind by Iteration Methods, Journal of Kirkuk University-Scientific Studies, Vol.2, No.1 (2007), 57-68.

68. Omer M. Al-Faour and Rostam K. Saeed, Solution of a system of linear Volterra integro-differential equations by Weighted residual methods, Journal of Al-Nahrain University, Vol. 10, No. 1 (2007), 84 - 93.

69. Omer M. Al-Faour and Rostam K. Saeed, Solution of a system of linear Volterra integral and integro-differential equations by spectral method, Journal of Al-Nahrain University, Vol.6, No.2 (2006), 30-46.

70. Rostam K. Saeed and Karwan H. Jwamer, Minimizing error bounds in lacunary interpolation by spline function, (0,1,4) case, Journal of Al-Nahrain University, Vol. 8, No. 2 (2005), 114-119.

71. Omer M. Al-Faour and Rostam K. Saeed, Solution of a linear system of Fredholm integro-differential equation of the second kind by successive approximation, Adomian decomposition and Aitkin's methods, Zanco, The Scientific journal of pure and applied Sciences-Salahaddin University/Erbil, Vol.17, NO.1 (2005), 79-89.

72. Rostam K. Saeed and Ahmed M Sabir, On boundary of joint numerical range of n-tuple operators on a complex

Hilbert space, **Zanco** journal of pure and applied Sciences, Vol.16, No.6 (2004), 157-166.

73. Rostam K. Saeed and Karwan H. Jwamer, Non-homogeneous lacunary interpolation by splines (0,3;0,2,4) case, (JDU) Journal of Dohuk University, Vol.6, No.1 (2003), 94-103.

74. Rostam K. Saeed and Karwan H. Jwamer, Lacunary interpolation by spline function (0,3) case, (JZS) Journal of Zancoy Sulaimani, Vol.6, No.1 (2003), 43-49.

75. Rostam K. Saeed and Karwan H. Jwamer, Lacunary interpolation by spline function (0,1,4) case, (JDU) Journal of Dohuk University, Vol.4, No.2 (2001), 193-196.

76. Rostam K. Saeed, The solution of Cauchy's problem by using six degree spline, (JDU) Journal of Dohuk University, Vol.3, No.1 (2000), 22-25.

77. Rostam K. Saeed and Fateh S. Aziz, On Hermite-Fejer interpolation at Tchebychev nodes at first kind, (JDU) Journal of Dohuk University, Vol.3, No.2 (2000), 90-94.

78. Rostam K. Saeed, Numerical solution of integro-differential equation using Subbotin quadratic spline, Journal of Ebn-Alhaytham for Pure and Applied Science, (1999).

79. Rostam K. Saeed, Averaging interpolation by periodic Cubic spline, Journal of Ebn-Alhaytham for Pure and Applied Science, (1999).

80. Rostam K. Saeed, Solution of Cauchy's problem by deficient spline, (J.C.E.) Journal of Education College, Vol.4, No.4 (1994), 1-8.

81. Rostam K. Saeed, (0,1,3,5) Lacunary interpolation by deficient splines, J. Sci. Nat. (Journal of Science and Nature), Vol.2, No.1 (1993), 1-3.

82. Rostam K. Saeed, (0,2,5) Interpolation by six degree spline, **Zanco** journal of pure and applied Sciences,Vol.5, No.2 (1992-1993), 38-45.

Book Publications

1. Rostam K. Saeed, Karwan H.F. Jwamer and Faraidun K. Hamaslah, Introduction to Numerical Analysis, First Edition, Published by University of Sulaimani, Sulaimani, Kurdistan Region- Iraq, 2005.
2. Rostam K. Saeed, Calculus-I, Published by LAP Lambert Academic Publishing, 2017.
3. Rostam K. Saeed and Mohammed I. Sadeeq, Numerical Treatment of Whitham- Broer- Kaup Shallow Water Model, Published by LAP Lambert Academic Publishing, 2017.

Training Courses:

1. Visiting the University of Saint-Etienne (France)-Faculty of Sciences and Technology, Laboratory of Mathematics from 1-9-20010 to 1-10-2010.
2. June 2001: attending the training course about conflict resolution in Beirut, Lebanon.
3. October 2000: attending the training course about conflict resolution in Columbia University, New York.

Scientific Conferences, Schools and workshops and memberships

1. Member of the scientific committee of the third international conference of mathematics and its applications (TICMA 2022), March 27-29, 2022 in Salahaddin University, college of Science, department of Mathematics, Erbil, Iraqi Kurdistan Region.
2. Member of the scientific committee of the 8th international conference and workshop on basic and applied science (ICOWOBAS-2021), August 23-24 workshop; 25-26 conference, faculty of science and technology, Universitas Airlangga, Indonesia.
3. Member of the scientific committee of the first international conference of mathematics (FICM2020), September 4- 05, 2020 in University of Sulaimani, Sulaimani City, Kurdistan Region, Iraq
4. Member of the scientific committee of the 5th International Engineering and Natural Sciences Conference (IENSC 2020), November 05-06, 2020 in Diyarbakir/TURKEY at Dicle University Congress Center
5. Present seminar titled "on my research filds in numerical analysis" at the Gathering kurdish mathematics researchers meeting with Caucher Birkar, April 1-2, 2019 in Erbil, Kurdistan Region of Iraq at department of mathematics, college fof Science, Salahaddin University-Erbil.
6. Member of the scientific committee of the 4th International Conference on Natural Sciences (ICNS2019)- Mathematics & Computer is held at University of Kurdistan, 18 and 19 April 2019, Sanandaj, Iran.
7. Member of the local organizing committee of the West Asia Mathematical Schools; Entitled: Control and

Optimization with Industrial Applications; Date and place of the school; 19-29December 2018, Place: Department of mathematics, College of Sciences, Salahaddin University-Erbil, Erbil, Kurdistan-Iraq.

8. Second International Conference of Mathematics (SICME2019) is held at College of Science, Salahaddin University-Erbil, 3-5-February, 2019

9. Member of the scientific committee of the Second International Conference of Mathematics (SICME2019) is held at College of Science, Salahaddin University-Erbil, 3-5-February, 2019.

10. Member of the scientific committee of the 3rd International Engineering and Natural Sciences Conference 2018 (IENSC 2018) , Diyarbakir, Turkey, on November 14-17, 2018.

11. Participate in an international workshop entitled "Some basic mathematics in cryptographic protocols" in 29th April - 3rd May, 2018 at Mathematics department, College of Science, Salahaddin University, Erbil.

12. Participate in a WAMS research school, Topics in Analytic and Transcendental Number Theory Institute for Advanced Studies in Basic Sciences (IASBS) Zanjan, Iran - July 1th - July 13th 2017.

13. Speaker in the first Iraqi-French mathematics conference, Erbil-Iraq, November 14-18, 2009 (Title of Lecture: On the new Higher order iterative methods for solving nonlinear equations f(x)=0) held in Salahaddin/Erbil University, Erbil-1raq.

14. Present the paper entitled "Numerical Solution of System of Two-Dimensional Linear Fredholm Integral Equations of the Second Kind by Adomian Decomposition Method" in the 4th International scientific conference of Salahaddin University/Erbil, October 18-20, 2011.

15. Present the paper entitled " Numerical Solution of Fisher-KPP Equation by Using Reduced Differential Transform Method and Comparison with Wave Solution" in the 6th International Conference and Workshops on Basic and Applied Sciences (6th ICOWBAS 2017), 18-19 March 2017, Erbil-Kurdistan Region-Iraq.

16. Head of Scientific committee of the national conference of pure and applied mathematics and mathematics education (**NCPAME-2018**) which was held on February 11-12, 2018 in Erbil, KRGF-IRAQ by Faculty of Education of Ishik University.

17. Co-chair of local organizing committee of WAMS school in Erbil 12th-22th march 2017 entitled **Topics in algebraic number theory and Diophantine approximation**.

18. Organizing committee of WAMS-CIMPA school 2016 entitled WAMS 2016: Iterative Methods For Solving The Boundary's Data Reconstruction Problems which take place in the Salahaddin University for the period from 18 to 29 December 2016. Your travel and accommodation will be supported by the CIMPA in a part of the CIMPA activity in Kurdistan.

19. Member of the organizing committee of the 6th international conference and ICOWOBAS 2017/ workshop and basic and applied sciences, and head of the scientific committee in this conference.

20. Member of the advisor committee of the center for scientific research of Salahaddin University\Erbil(4-2-2016- till date)

21. Member of the organizing committee for the West Asia Mathematical Schools { The CIMPA cooperate with the Salahaddin University and the University of Diyala, organize for The period from 20 to 29 December 2015 in the Salahaddin University: West Asia Mathematical Schools WAMS-CIMPA entitled **"Boundary Value Problems and Approximations**}.

22. Member of the general quality assurance committee-Ministry of Higher Education and Scientific Research (August 16, 2015- till date).

23. Member of the organizing committee for the CIMPA-Kurdistan-Iraq research school on Inverse problem (Theory and applications), Salahaddin University, Erbil, Kurdistan-Iraq, May 5-14, 2014.

24. Chairman of the Central Committee of Scientific Promotions in the Salahaddin University (12-9-2011 to 17-92014).

25. Chairman of the Committee of Scientific Promotions in the college of Science (2008 to 12-9-2011).

26. Chairman of the organizing committee for the conference of development of mathematics curriculum at 25-6-2011.

27. Members of the Committee of Scientific Promotion in the college of Science (2003 -2008).

28. Chairman (sometimes member) of Procurement Committee (1992-1999).

29. Chairman or member, in many committees in the in the college of Science- Salahaddin University/Erbil.

30. Member of the organizing committee for the 4th International Scientific Conference of Salahaddin University/Erbil, October 18-20, 2011, Erbil, Kurdistan, Iraq.

31. Member of the university discipline of service (2008-).

32. Member of the organizing committee for the Iraqi-French mathematics conference, Erbil-Iraq, November 14-18, 2009.

33. Member of the Curriculum Development Committee (2007-2009).

34. Member of Mathematics and Physical Society of Iraq. (1988-1992)

Editorial Boards and Reviewers:

1. Editorial board of Karshi International Journal of Science and Technologies (4-1-2024 to date)

2. Editorial board of Mathematical Models & Methods in Modern Mathematics (4-1-2024 to date)

3. Editorial board of Polytechnic Journal (23-3-2023 to date)
4. Editorial board of Computational Algorithms and Numerical Dimensions (2022 to date)
5. Reviewer of the Journal: Journal of Mathematics and System Science (2019 to date)
6. Reviewer of the journal: Journal of Mathematics and System Science (2018 to date)
7. Referee of the journal: Analysis in Theory and Applications (7-6-2018 to date)
8. Editorial board of SCIREA Journal of Mathematics (1-3-2017 to date)
9. Editorial board of International Journals of Engineering and Sciences (IJENS) (2012 to date)
10. Regional editor of Singapore Journal of Scientific Research (2-1-2012 till 1-1-2018)
11. Regional editor of Asian Journal of Mathematics & Statistics (2-1-2012 till 1-1-2018)
12. Associate editor of Asian Journal of Scientific Research (2-1-2012 till 1-1-2018)
13. Regional editor of Journal of Applied Sciences (2-1-2012 till 1-1-2018).
14. Editorial board of International Science and Research Journal (2012 to 5-2016)
15. Editorial board of Advances in Applied Mathematical Analysis (AAMA) (20-12-2011 to 6-2016)
16. Editorial board of Advances in Theoretical and Applied Mathematics (ATAM) (20-12-2011 to date)
17. Editorial board of Global Journal of Pure and Applied Mathematics (GJPAM) (20-12-2011 to 2-2016)
18. Advisor board of the Al-Rafidian journal of computer science and mathematics (2011 till 2013).
19. Editorial board of Zanco, Journal of Pure and Applied Sciences, Salahaddin University/Erbil (5-4-2009 till date
20. 2013).

Funding and academic awards
………………..

Professional memberships

1. Kurdistan Teachers Union
2. Tatweer Global Platform

Professional Social Network Accounts:

https://scholar.google.com/citations?user=igFz6SEAAAAJ&hl=en

https://www.researchgate.net/profile/Rostam-Saeed

https://en.wikipedia.org/wiki/Rostam_K._Saeed

I was the supervisor of the following MSc theses

1. **Mohammed Ismail Sadeeq,** Numerical treatment of Whitham-Broer-Kaup shallow water model, MSc thesis, Salahaddin University/Erbil-College of Science-Department of Mathematics, Day of discussion: 6-10-2016.

2. **Rebwar Saleh Ahmed,** Computational methods for solving coupled Hirota system, MSc thesis, Salahaddin University/Erbil-College of Science-Department of Mathematics, Day of discussion: 28-10-2015.

3. **Karzan Ahmed Berdawood,** Computational methods for solving two-dimensional linear Volterra-Fredholm integral equations of the second kind, MSc thesis, Salahaddin University/Erbil-College of Science-Department of Mathematics, Day of discussion: 25-1-2015.

4. **Andam Ali Mustafa,** Computational methods for solving Glycolysis system in one dimension, MSc thesis, Salahaddin University/Erbil-College of Science-Department of Mathematics, Day of discussion: 8-1-2015.

5. **Fuad Wahed Khdher,** Some iterative methods for solving nonlinear equations, MSc thesis, Salahaddin University/Erbil-College of Science-Department of Mathematics, Day of discussion: 10-7-2010.

6. **Botan Muhammed Rahman,** Numerical solutions for a system of retarded delay differential equations, MSc thesis, Salahaddin University/Erbil-College of Science-Department of Mathematics, Day of discussion: 8-72010.

7. **Shno Othman Ahmed,** Improvements of some iterative methods for solving non-linear equations, MSc thesis, Salahaddin University/Erbil-College of Science-Department of Mathematics, Day of discussion: 26-9-2009.

8. **Hasan Muhammad Sdiq,** Some computational methods for solving a system of linear Fredholm Fractional integro-differential equations of the second kinds, MSc thesis, Salahaddin University/Erbil-College of Science- Department of Mathematics, Day of discussion: 28-8-2008.

9. **Mahdi Hassan Mahmud,** Approximate methods for solving a system of linear two- dimensional Fredholm integral equations of the second kinds, MSc thesis, Salahaddin University/Erbil-College of Science-Department of Mathematics, Day of discussion: 31-8-2008.

10. **Kawa Mustafa Aziz**, An approximate solution for solving the system of non-linear Fredholm integral equations of the second kind, MSc thesis, Salahaddin University-College of Science-Department of Mathematics, Day of discussion: 8-8-2007.

11. **Chnar Shahab Nagmaddin,** Computational methods for solving system of nonlinear Volterra Integral Equations of the second kind, MSc thesis, University of Sulaimani-College of Science-Department of Mathematics, Day of discussion: 8-9-2007.

12. **Ahmed Muhammad-Sabir Muhammad,** Some generalizations of numerical range of operators on a complex Hilbert space, MSc thesis, Salahaddin University-College of Science-Department of Mathematics, Day of discussion: 3-8-2002

13. **Karwan Hama Faraj Jwamer,** Study some of the lacunary interpolation by splines and their error bounds, MSc thesis, Salahaddin-College of Science-Department of Mathematics, Day of discussion: 14-8-2001.

I was the supervisor of the following PhD Dissertation

1. **Saman Ahmed Perdwd (Joint supervision with professor Abdulrahman Davandi),……,** PhD thesis, Salahaddin University-Erbil-College of Science- Department of Mathematics, Day of discussion: under work.

2. **Sarfraz Hasan Salim (Joint supervision with professor Karwan HamaFaraj Jwamer),** Investigation of different kinds of Volteera-Fredholm integral equations by different spline functions, PhD thesis, University of Sulaimani-College of Science- Department of Mathematics, Day of discussion: 25-2-2024.

3. **Nawzad M. Ahmed,** Computational approaches for multi-asset option pricing problems in finance, PhD thesis, Soran University- Faculty of Science- Department of Mathematics, Day of discussion: under work.

4. **Karzan Ahmed Berdawood (Joint supervision with professor Abdeljalil Nachaoui),** New iterative methods for solving Cauchy problems governed by Helmholtz-type equations, PhD thesis, Salahaddin University/Erbil -College of Science- Department of Mathematics, Day of discussion: 7-8-2022.

5. **Fuad Wahid Khdhr (Joint supervision with Professor Fazlollah Soleymani),** New multi-step iterative methods for nonlinear problems with some applications, PhD thesis, Salahaddin University/Erbil -College of Science-Department of Mathematics, Day of discussion: 12-5-2020.

6. **Imad Abdulrahman Aziz (Joint supervision with Dr. Kawa Mustyafa Aziz MANMI),** Modelling three dimensional bubble dynamics near rigid boundaries using boundary integral method, PhD thesis, Salahaddin University/Erbil -College of Science-Department of Mathematics, Day of discussion: 12-3-2020.

7. **Fadhil Hamed Eisf (Joint supervision with Professor Saad A. Manna),** Numerical solutions and stability of Brusselator system, PhD thesis, University of Duhok-College of Education-Department of Mathematics, Day of discussion: 17-6-2010.

8. **Faraidun Kader Hama-Saleh (Joint supervision with Professor Abbas Y. Al-Bayati),** Invistigations in lacunary interpolation with applications, PhD thesis, University of Sulaimani-College of Science-Department of Mathematics, Day of discussion: 27-8-2009.

I was one of the members of the examination committee for discussing the following MSc theses:

1. **Dana Ahmed MohammedAmeen**, M.Sc. thesis, Salahaddin University/Erbil, College of Science, Department of Mathematics, Day of discussion: 4-12-2022 (Chairman).

2. **Rahel Jaza Qadir**, M.Sc. thesis, University of Sulaimani, College of Education, Department of Mathematics, Day of discussion: 15-9-2022 (Chairman).

3. **Jomaa Jameel Murad**, M.Sc. thesis, University of Zakho, Faculty of Science, Department of Mathematics, Day of

discussion: 16-9-2021 (Chairman).

4. **Karzan Abdulrahman Hamza**, M.Sc. thesis, University of Sulaimani, College of Education, Department of Mathematics, Day of discussion: 2-3-2020 (Chairman).

5. **Ahmed J. Sabli**, M.Sc. thesis, University of Zakho, Faculty of Science, Department of Mathematics, Day of discussion: 24-5-2017 (Chairman).

6. **Bewar Y. Ali**, M.Sc. thesis, University of Zakho, Faculty of Science, Department of Mathematics, Day of discussion: 27-4-2017 (Chairman).

7. **Bzhar J. Aziz**, M.Sc. thesis, University of Sulaimani, College of Science, Department of Mathematics, Day of discussion: 22-9-2016 (Chairman).

8. **Amena H. Ali**, M.Sc. thesis, University of Sulaimani, College of Education, Department of Mathematics, Day of discussion: 21-9-2016 (Chairman).

9. **Pshtiwan O. Muhammad**, M.Sc. thesis, University of Sulaimani, Faculty of Science and Science Education, School of Science Education, Department of Mathematics, Day of discussion: 16-8-2015 (Chairman).

10. **Nsar H. Alias**, Ms. C. thesis, Dr. Babasaheb Ambedkar Marathwada University, India, Day of discussion: 1-62015 (Chairman of the Equalizing certificate Committee).

11. **Zana S. Rashid**, Ms. C. thesis, Easterm Mediterranean University, Gazimagusa, North Cyprus, Day of discussion: 15-2-2015 (Chairman of the Equalizing certificate Committee).

12. **Bakhtyar R. Abdurrahman**, M.Sc. thesis, Salahaddin University/Erbil, College of Science -Department of Mathematics, Day of discussion: 22-1-2015(Member).

13. **Yousif A. Qahraman**, Ms. C. thesis, Easterm Mediterranean University, Gazimagusa, North Cyprus, Day of discussion: 5-1-2015 (Chairman of the Equalizing certificate Committee).

14. **Soran J. Abdalla**, Ms. C. thesis, Easterm Mediterranean University, Gazimagusa, North Cyprus, Day of discussion: 2-12-2014 (Chairman of the Equalizing certificate Committee).

15. **Majeed A. Yousif**, Ms. C. thesis, University of Zakho-Faculty of Science -Department of Mathematics, Day of discussion: 17-9-2014(Member).

16. **Aveen S. Faris**, Ms. C. thesis, University of Zakho-Faculty of Science -Department of Mathematics, Day of discussion: 24-6-2014(Member).

17. **Lajan J. Mohammed**, M.Sc. thesis, Salahaddin University/Erbil, College of Science -Department of Mathematics, Day of discussion: 19-6-2014(Member).

18. **Maher M. Ahmed**, Ms. C. thesis, Salahaddin University/Erbil, College of Science -Department of Mathematics, Day of discussion: 6-4-2014(Member).

19. **Dlveen M. Ahmed**, Ms. C. thesis, University of Zakho-Faculty of Science -Department of Mathematics, Day of discussion: 8-9-2013(Member).

20. **Dilan Faraidoon Ahmed**, Ms. C. thesis, University of Sulaimani-Faculty of Science and Science Education-Department of Mathematics, Day of discussion: 9-5-2013(Member).

21. **Khelan Hussien Qadr**, MSc thesis, University of Sulaimani- Faculty of Science and Science Education-Department of Mathematics, Day of discussion: 12-11-2011(Member).

22. **Joli M. Rashed,** MSc thesis, University of Zakho -Faculty of Science-Department of Mathematics, Day of discussion: 13-9-2011(Member).

23. **Nawzad Muhammad-Amen,** MSc thesis, Salahaddin/Erbil University-College of Education-Department of Mathematics, Day of discussion: 4-11-2010(Member).

24. **Bewar Haji Abdulla**, MSc thesis, University of Dohuk-College of Education-Department of Mathematics, Day of discussion: 3-7-2010(Member).

25. **Abdul-Qader Othman Hamadamin**, MSc thesis, University of Koya, College of Science, Day of discussion: 28

5- 2008(Member).

26. **Farhad M. S. Abdulla**, MSc thesis, University of Dohuk-College of Education-Department of Mathematics, Day of discussion: 8-12-2007(Member).

27. **Sheelan Osman Hussein**, MSc thesis, University of Sulaimani-College of Science-Department of Mathematics, Day of discussion: 20-10-2007(Member).

28. **Ali Wahab Karim,** MSc thesis, University of Sulaimani-College of Science-Department of Mathematics, Day of

discussion: 9-3-2007(Member).

29. **Laya Y. Hawell,** MSc thesis, University of Duhok-College of Education-Department of Mathematics, Day of discussion: 28-12-2006(Member).

30. **Nafya Hameed Mohammed**, MSc thesis, Salahaddin University-College of Education-Department of Mathematics, Day of discussion: 5-11-2003(Member).

31. **Waleed Hussain Aziz**, MSc thesis, Salahaddin University/Erbil-College of Science-Department of Mathematics, Day of discussion: 19-12-2002(Member).

32. **Fryad Hussain Abdul-Kadir**, MSc thesis, Salahaddin University/Erbil-College of Education-Department of Mathematics, Day of discussion: 27-6-2002(Member).

33. **Saddam Hassan Yunis**, MSc thesis, Salahaddin University/Erbil-College of Science-Department of Mathematics, Day of discussion: 14-10-2001(Member).

34. **Payman Rashed**, MSc thesis, Salahaddin University/Erbil-College of Science-Department of Mathematics, Day of discussion: 2001 (Member).

35. **Sabah Ali Mohammed**, MSc thesis, Salahaddin University/Erbil-College of Science-Department of Mathematics, Day of discussion: 12-7-2001 (Member).

I was one of the members of the examination committee for discussing the following <u>PhD dissertation:</u>

1. **Majed Ahmad Yousif**, PhD thesis, University of Zakho-College of Science-Department of Mathematics, Day of discussion: 7-3-2024 (Chairman).

2. **Miran Bayan MohammedAmin**, PhD thesis, University of Sulaimani-College of Science-Department of Mathematics, Day of discussion: 6-3-2024 (Chairman).

3. **Bewar Ahmed Mahmood**, PhD thesis, University of Duhok-College of Science-Department of Mathematics, Day of discussion: 7-12-2023 (Chairman).

4. **Chiman Mohammed Qadir**, PhD thesis, Salahaddin University/Erbil-College of Science-Department of Mathematics, Day of discussion: 6-12-2023 (Chairman).

5. **Pshtiwan Othman Mohammed**, PhD thesis, University of Sulaimani-College of Education-Department of Mathematics, Day of discussion: 21-9-2023 (Member).

6. **Muhammad Amin Sadiq Murad**, PhD thesis, University of Duhok-College of Science-Department of Mathematics, Day of discussion: 19-9-2023 (Member).

7. **Mohammed O. Shaaban**, Ph. D. thesis, University of Mousl, College of Computer Sciences and Mathematics, Department of Mathematics, Day of discussion: 23-2-2023 (Chairman).

8. **Siham M. Ali**, Ph. D. thesis, University of Mousl, College of Computer Sciences and Mathematics, Department of Mathematics, Day of discussion: 18-6-2015 (Chairman).

9. **Hazha Z. Hussain**, Ph. D. thesis, Salahaddin University/Erbil, College of Science -Department of Mathematics, Day of discussion: 19-4-2014(Member).

10. **Aryan Ali Muhammad**, Ph. D. thesis, University of Sulaimani-Faculty of Science and Science Education- Department of Mathematics, Day of discussion: 26-1-2013 (Member).

11. **Gulnar Wasim Sadiq**, PhD thesis, University of Sulaimani-College of Science-Department of Mathematics, Day of discussion: 26-8-2010 (Member).

12. **Zahir Ali Amin**, PhD thesis, Salahaddin University/Erbil -College of Agriculture, Day of discussion: 17-1-2008 (Member).

13. **Ibrahim Othman Hamad**, PhD thesis, Salahaddin University/Erbil-College of Science-Department of Mathematics, Day of discussion: 14-6-2007 (Member).

14. **Najmaddin Hama Garib**, PhD thesis, University of Sulaimani-College of Science-Department of Mathematics, Day of discussion: 5-7-2007 (Member).