Curriculum Vitae

Personal details:

Name: Rostam K. 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

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Education:

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

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

Employment History :

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

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

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

2000-till date: Supervising 9 M.Sc. students and 2 PhD students in Department of Mathematics, College of Science, University of Salahaddin/Erbil, University of Sulaimani and Dohuk University, Iraq.

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

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

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

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

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

Research Publications:

1. Saad A. Manaa, Rostam K. Saeed and Fadhil H. Easif, The finite difference methods and its stability for Glycolysis model in one dimension, Journalof Mathematical and Computational Science, (2012) accepted.

2. Rostam K. Saeed, Karwan H-F. Jwamer and Khelan H. Qader, Spectral Properties

3. 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, Mathematical sciences letters, 2012.

4. 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 16 (10): 1360-1367, 2012.

5. 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, accepted in the 4th International scientific conference of Salahaddin University-Erbil, October 18-20, 2011.

6. Rostam K. Saeed and Fuad W. Khthr, New third-order iterative method for solving nonlinear equations, Journal of Applied Sciences Research, 7(6): 916-921, 2011.

7. Rostam K. Saeed and Botan M. Rahman, Differential transform method for solving system of delay differential equation, Australian Journal of Basic and Applied Sciences, 5(4): 201-206, 2011.

8. Rostam K. Saeed, Six Order iterative method for solving nonlinear equations, Word applied Sciences Journal, 11(11): 1393-1397, 2010.

9. 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.

10. Saad A. Manna; Rostam K. Saeed and Fadhil H. Eisf , Numerical solution of Brusselator model by finite element method, Journal of Duhok University, 2010 (Accepted).

11. 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.

12. 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, 4(8): 3389-3403, 2010..

13. Rostam K. Saeed and Botan M. Rahman, Adomian decomposition method for solving system of delay differential equation, Australian Journal of Basic and Applied Sciences, 4(8): 3613-3621, 2010.

14. Rostam K. Saeed and Fuad W. Khthr, Three new iterative methods for solving nonlinear equations, Australian Journal of Basic and Applied Sciences, 4(6): 1022-1030, 2010.

15. 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, s, 4(4): 633-638, 2010 .

16. 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, September, 2010.

17. Saad A. Manna; Rostam K. Saeed and Fadhil H. Eisf, Numerical Stability of Brusselator system. Al-Rafidian journal of computer science and mathematics, 2010.

18. 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.

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

20. Rostam K. Saeed and Shno O. Ahmed, A new fourth-order iterative method for solving nonlinear equations, Zanko, The Scientific journal of pure and applied Sciences-Salahaddin University/Erbil, Vo. 21, No.5, (2009).

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

22. 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.

23. 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.
....

24. Rostam K. Saeed and Ahmed M. Sabir, A study of joint numerical range, (JDU) Journal of Dohuk University,(accepted), (2008)

25. 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), p.1166-1173.

26. 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), p.1174-1183.

27. Rostam K. Saeed and Chinar S. Ahmed, Approximate Solution for the System of Non-linear Volterra Integral Equations of the Second Kind by using Block-by-Block Method, Australian Journal of Basic and Applied Sciences, 2(1),2008, 114-124.

28. Rostam K. Saeed   and Kawa M. Aziz, An iterative method with quartic convergence for solving nonlinear equations, Applied Mathematics and Computation, USA, 202 (2008), p. 435-440.

29. 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-Rafidain Journal for computer science and Mathematics, 2008 (Acccepted).

30. 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-2008 (accepted).

31. 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), p. 113-128.

32. 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.

33. 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, 2006.

34. 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, 2006.

35. Rostam K. Saeed and With Karwan H. Jwamer, Minimizing error bounds in lacunary interpolation by spline function, (0,1,4) case, Journal of Al-Nahrain University, Vol. 8(2), December, 2005, pp.114-119.

36. 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, Zanko, The Scientific journal of pure and applied Sciences-Salahaddin University/Erbil, Vol.17,NO.1 (2005), p.79-89.

37. Rostam K. Saeed and Ahmed M Sabir, On boundary of joint numerical range of n-tuple operators on a complex Hilbert space, Zanko, The Scientific journal of pure and applied Sciences-Salahaddin University/Erbil, Vol.16 NO.6 (2004), P.157-166.

38. 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), p.94-103.

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

40. 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), p.193-196.

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

42. 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), p.90-94.

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

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

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

46. 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), p.1-3.

47. Rostam K. Saeed, (0,2,5) Interpolation by six degree spline, Zanko, The Scientific journal of pure and applied Sciences-Salahaddin University/Erbil,Vol.5, No.2,(1992-1993), p.38-45.

Training Courses:

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

Scientific Conferences (as a Speaker and/or paper presenter)

- 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.
- 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 University of Salahaddin/Erbil, October 18-20, 2011.

Editorial Boards and Memberships:

- Editorial board of Zanco, Journal of Pure and Applied Sciences, University of Salahaddin/Erbil (5-4-2009 till date).
- Advisor board of the Al-Rafidian journal of computer science and mathematics (2011 till date).
- Editorial board of Journal of Applied Sciences (2-1-2012 till date).
- Editorial board of Asian Journal of Scientific Research (2-1-2012 till date)
- Editorial board of Asian Journal of Mathematics & Statistics (2-1-2012 till date)
- Editorial board of Singapore Journal of Scientific Research (2-1-2012 till date)

- Editorial board of Global Journal of Pure and Applied Mathematics (GJPAM) (20-12-2011 to date)
- Editorial board of Advances in Theoretical and Applied Mathematics (ATAM) (20-12-2011 to date)
- Editorial board of Advances in Applied Mathematical Analysis (AAMA) (20-12-2011 to date)
- Member of Mathematics and Physical Society of Iraq.(1988-1992)

Member of the committees:

- Chairman of the Central Committee of Scientific Promotions (12-9-2011 to)
- Head of the scientific committee of the department of mathematics-College of Science (2-1-2012 till date)
- Chairman of the Committee of Scientific Promotions (2008-(12-9-2011)).
- Chairman of the organizing committee for the conference of development of mathematics curriculum at 25-6-2011.
- Members of the Committee of Scientific Promotion (2003-2008).
- Chairman (sometimes member) of Procurement Committee (1992-1999).

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

- Member of the organizing committee for the 4th International Scientific Conference of University of Salahaddin/Erbil, October 18-20, 2011, Erbil, Kurdistan, Iraq.
- Member of the university discipline of service (2008-).
- Member of the organizing committee for the Iraqi-French mathematics conference, Erbil-Iraq, November 14-18, 2009.
- Member of the Curriculum Development Committee (2007-2009).

Subjects of interest (for BSc, MSc and PhD):

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

I was the supervisor of the following MSc and PhD theses

1. **Fuad Wahed Khdher** "Some iterative methods for solving nonlinear equations", MSc thesis, University of Salahaddin/Erbil-College of Science-Department of Mathematics, Day of discussion: 10-7-2010.
2. **Botan Muhammed Rahman** "Numerical solutions for a system of retarded delay differential equations", MSc thesis, University of Salahaddin/Erbil-College of Science-Department of Mathematics, Day of discussion: 8-7-2010.
3. **Fadhil Hamed Eisf** "Numerical solutions and stability of Brusselator systeml", PhD thesis, University of Duhok-College of Education-Department of Mathematics, Day of discussion: 17-6-2010, (C0-advisor with Assist. Proff. Dr. Saad).
4. **Faraidun H Saleh** "Invistigations in lacunary interpolation with applications", PhD thesis, University of Sulaimani-College of Science-Department of Mathematics, Day of discussion: 27-8-2009, (Co-advisor with Proff. Dr. Abass Al-Bayati)

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

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

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

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

9. **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.

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

11. **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 one of the members of the examination committee for discussing the following MSc and PhD theses:

1. **Khelan Hussien Qadr**, MSc thesis, University of Sulaimani-Faculty of Science-Department of Mathematics, Day of discussion: 12-11-2011.

2. **Joli M. Rashed,** MSc thesis, University of Zakho –Faculty of Science-Department of Mathematics, Day of discussion: 13-9-2011.

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

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

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

6. **Abdul-Qader Othman Hamadamin**, MSc thesis, University of Koya, College of Science, Day of discussion: 28-6-2008.

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

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

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

10. **Ibrahim Othman Hamad**, PhD thesis, Salahaddin University/Erbil-College of Science-Department of Mathematics, Day of discussion: 14-6-2007.
11. **Najmaddin Hama Garib**, PhD thesis, University of Sulaimani-College of Science-Department of Mathematics, Day of discussion: 5-7-2007.
12. **Ali Wahab Karim,** MSc thesis, University of Sulaimani-College of Science-Department of Mathematics, Day of discussion: 9-3-2007.
13. **Laya Y. Hawell,** MSc thesis, University of Duhok-College of Education-Department of Mathematics, Day of discussion: 28-12-2006.
14. **Nafya Hameed Mohammed**, MSc thesis, University of Salahaddin-College of Education-Department of Mathematics, Day of discussion: 5-11-2003.
15. **Waleed Hussain Aziz**, MSc thesis, Salahaddin University/Erbil-College of Science-Department of Mathematics, Day of discussion: 19-12-2002.
16. **Fryad Hussain Abdul-Kadir**, MSc thesis, Salahaddin University/Erbil-College of Education-Department of Mathematics, Day of discussion: 27-6-2002.
17. **Saddam Hassan Yunis**, MSc thesis, Salahaddin University/Erbil-College of Science-Department of Mathematics, Day of discussion: 14-10-2001.
18. **Payman Rashed**, MSc thesis, Salahaddin University/Erbil-College of Science-Department of Mathematics, Day of discussion: 2001.
19. **Sabah Ali Mohammed**, MSc thesis, Salahaddin University/Erbil-College of Science-Department of Mathematics, Day of discussion: 12-7-2001.