

Curriculum Vitae

Khalil I.T. Al-Dosary

Department of Mathematics
College of Sciences, University of Sharjah
P.O. Box 27272, Sharjah, United Arab Emirates
Tel: (971) (6) 5050390 Fax: (971) (6) 5050352
E-mail: dosary@sharjah.ac.ae

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ACADEMIC QUALIFICATIONS

- Ph.D. in Mathematics (Differential Equations and Dynamical Systems), 1980, London University, UK.
- M.Sc. in Mathematics (Differential Equations), 1977, Warwick University, UK.
- M.Sc. in Mathematics (Dynamical Systems), 1976, Baghdad University -Iraq.
- B.Sc. in Mathematics, 1974, Baghdad University – Iraq.

PROFESIONAL EXPERIENCE

Administrative Positions

- Head of Department of Math. /College of Science– Baghdad University, Iraq (1990-1991).
- Executive Member in College Committee / Philadelphia Univ. Jordan, (1996-1997).
- Head of Math. Dept. /College of Education – Ibri – Oman, (1997-1998).
- Mathematics Division Coordinator and then Head of Mathematics Department / College of Arts and Sciences, Sharjah University (2004- 2007).
- Head of Department of Mathematics, College of Sciences / University of Sharjah. UAE (2012-2014).

Academic Positions

- Professor of Mathematics (2008 -...) Sharjah University, U.A.E.
- Associate Professor (2007- 2009) Sharjah University, U.A.E.
- Associate Prof. & Head of Mathematics Department (2004 – 2007), Sharjah University, U.A.E
- Associate Professor (1998 – 2004) Sharjah University, U.A.E.
- Associate Professor & Head of Math. Dept. (1997- 1998) College of Education –Ibri-Oman
- Associate Professor (1996-1997) Philadelphia University Jordan
- Assistant Professor (1991-1996) Alfateh University Libya (Equivalent to Associate at Sharjah University)

- Associate Professor & Head of Department of Math. (1990-1991) Baghdad University, Iraq.
- Associate Professor (1989-1990) Baghdad University, Iraq
- Assistant Professor (1987-1989) Baghdad University, Iraq
- Lecturer (1983-1987), Technology University Baghdad, Iraq
- Lecturer (1981-1982), Military Technical College-Baghdad, Iraq

Course Taught

I have taught continuously since 1981 in various academic institutions and have developed a reputation as an excellent teacher. Students are attracted to my courses and evaluate my courses extremely favorably. I have attended workshops on “The Methods of Teaching”. My mathematical background is particularly broad, enabling me to teach a wide variety of courses at all levels as:

Undergraduate:

- Elementary and Advanced Calculus
- Vector Calculus
- Linear Algebra and Abstract Algebra
- Operations Research
- Real and Complex Analysis
- Ordinary and Partial Differential Equations
- Set Theory, Logic and Finite Mathematics
- Topology
- Geometry
- Numerical Analysis
- Statistics and Probability.

Postgraduate:

- Linear Algebra
- Differential Equations Theory
- Dynamical Systems
- Singularity Theory

Supervision:

I have supervised six M.Sc. students and contributed as a member of jury for many M.Sc. theses.

Computer Experience

I have successfully passed all modules required for the granting of the **International Computer Driving License Syllabus Version 4.0 (ICDL)**.

Membership in Committees

University Committees:

1. Department Representative in the College Council (2007-2012).
2. Member of Scientific Research Committee for University Strategic Plan (2007-2008)

3. Member of Faculty Affairs Committee (2009-2010)
4. Member of The Central Committee for Faculty Promotion (2009-2012)
5. Member of Committee for Refereeing the Annual Faculty Incentive Awards (2009-2012).
6. Member of the Tenant Committee (2008-2010).
7. Member of Judging Committee of the **Intel Science Competition-Arab World 2011**
8. Academic Member of the Athens Institute for Education and Research (2016-)

College Committees:

1. Member of Promotion Committee (1999-2000).
2. Member of Scientific Research Committee (1999-2000 & 2001-2012).
3. Member of Student Affairs (2000-2001).
4. Member of Committee of Complaint of Staff (2004- 2005).
5. Coordinator of Student Affairs (2007-2008).
6. Member of Committee of Media and Community Service 2008-2009
7. Member of College Council, Department Faculty Representative (2009-2012 & 2014-...).
8. Member of College Budget Committee (2009-2010).
9. Rapporteur for the College Council (2009-2012).

Departmental Committees:

- Member of Accreditation Committee (2001-2002).
- Member of Conference/Research Committee (2001-2004).
- Member of Curriculum Committee (2001-2004, 2008-2010).
- Member of Promotion Committee (2003-2011).
- Member of Human Recourses Committee (2003-2004, 2009-2010).
- Member of Recruiting Committee (2007-2008)
- Coordinator of the Seminars Committee (2001-2003).
- Rapporteur for the Department of Basic Sciences (2001-2003).
- Rapporteur for Mathematics Division (2003-2004).
- Coordinator of Community Service Committee (2007-2008).
- Coordinator of Human Recourses Committee (2007-2012).
- Member of Social Committee (2007-2008).
- Member of Organizing Committee of UAE MathDay, 2008 (Abu Dhabi).
- Several other committees at the University /College/ Department.
- Member of Organizing Committee of 7th UAE MathDay, 2009 (Sharjah).
- Member of Student Affairs Committee (2009-2010).
- Coordinator of Curriculum Committee (2009-2012).
- Member of Examination and Scheduling Committee (2000-2010).
- Member of Incentive Awards Committee (2010-)

Membership in Scientific Societies

1. Member of Editorial of *Journal of Mathematical Sciences* since July 21st, 2014.
2. Member of American Mathematical Society, USA.
3. Member of the International Society of Difference Equations, USA.
4. The Mathematical Association of America, USA.

5. ISDE Group, USA.
6. Member of London Mathematical Society, UK (previously).
7. Member of New York Academy of Science, USA (previously).
8. Executive Member of Iraqi Society of Physics & Mathematics, Iraq (previously).

HONOR / AWARDS / SCHOLARSHIPS

1. **Study Grant** from University of Technology (Baghdad) for Graduate studies in the UK (1976-1980).
2. **Distinguished staff Award**, Ministry of Higher Education and Scientific Research (4/1/1987) Baghdad.
3. **University of Sharjah Distinguished Staff Award**, University of Sharjah, United Arab Emirates, 2006.
4. I have been awarded the **College Distinguished Researcher Award 2006-2007**, at University of Sharjah.
5. I have been awarded the **College Distinguished Staff Award 2007-2008**, at University of Sharjah.
6. I have been awarded the **2008-2009 Incentive Award for Distinguished Faculty Member in Research**.
7. I have been awarded the **College Distinguished Staff Award 2008-2009**, at University of Sharjah.
8. I have been awarded the **Exceptional Faculty Member at University Level 2011-2012**.

Editorial Board Membership

- Member of Editorial Board of *Journal of Mathematical Sciences*, USA.
- Reviewer of *Journal of Advances in Mathematics*.
- Reviewer for *Mathematical Reviews (MR)*.

RESEARCH

Research Interests

- Theory of Ordinary Differential Equations
- Dynamical Systems
- Vector Fields
- Theory of Difference Equations

Conferences

I have attended and contributed with many of national and international scientific conferences and submitted many studies and contributed with organizing many seminars. The following are selected conferences where I attended or presented a talk

1. International Mathematical Summer Center, (C.I.M.E.) **Italy**, June 19-27, 1973 (Attending).
2. International Conference on Nonlinear Dynamics, **New York**, December 17-21, 1979 (Attending).
3. Warwick Symposium on Dynamical Systems, **UK**. March 17-22, 1980 (Attending).

4. Mathematical Analysis & Its Applications conference, **Kuwait**, February 18-21, 1985 (Presenting a talk).
5. Presented and attended seminar talks at various universities such as: University of Sharjah (1998-Present); College of Education, Oman (1997-1998); Philadelphia Uni. Jordan (1996-1997); Baghdad Uni. **Iraq** (1987-1991); Technology Uni. Iraq (1983-1987).
6. Workshop on Examination and evaluation, University of Sharjah, **UAE**, Sep, 2000, (Attending).
7. Workshop on Microsoft Excel, University of Sharjah, **UAE**, Oct. 2000, (Attending).
8. International Conference on Higher Education in Asian Universities, University of Sharjah, **UAE**, Nov. 2000, (Attending).
9. Symposium on Scientific Research Outlook in the Arab World, University of Sharjah, **UAE**, Apr. 2000, (Attending).
10. International Conference in Functional Analysis and Applications at the American University of Sharjah, **UAE**, May 2001(Presenting a talk).
11. Seventh International Conference on Difference Equations and Applications, **China**, August 11-17, 2002 (Presenting a talk).
12. The 2003 UAE Math Day, at the University of Sharjah, **UAE**, May 2003 (Presenting a talk).
13. The 2004 UAE Math Day, at the American University of Sharjah, **UAE**, April 2004 (Presenting a talk).
14. The 2005 UAE Math Day, at the United Arab Emirates University, **UAE**, Sep. 2005 (Presenting a talk).
15. The 5th Conference of Balkan Society of Geometers, Mangalia, **Romania**, Sept. 2005, (Presenting a talk).
16. The 2006 UAE Math Day, at the University of Sharjah, **UAE**, April 2006 (Presenting a talk).
17. 5th UAE Math Day, at Etisalat University College, Sharjah, **UAE**, April 2007, (Presenting a talk).
18. First Sharjah International Conference on Nanotechnology and its Applications. At the colleges of Arts and Sciences at American University of Sharjah and the University of Sharjah, Sharjah, **UAE**, April 10, 2007.
19. The Fourth International Conference of Applied Mathematics and Computing (plovdiv, **Bulgaria**, August 12-18, 2007). (Presenting an invited lecture).
20. The 6th UAE Mathday, at The Petroleum Institute, **Abu Dhabi**, 26 April 2008, (Presenting a talk): Oscillation of 2nd order DEs.
21. The 3rd International Conference On Mathematical Sciences. **Al-Ain** March 3-6, 2008, (Presenting a talk): Conditions for Oscillatory and Periodic Solutions.
22. Inter. Conf. of Numerical Analysis and Applied Mathematics 2008 (ICNAAM 2008), Kos, **Greece**, 16-20 Sept. 2008. (Presenting a talk): Planar Poly. Syst. With Nonalgebraic Limit Cycles.
23. The 7th UAE MathDay, at University of Sharjah, **UAE**, April 25, 2009 (Presenting a talk): Global Periodicity of Discrete Dynamical Systems.
24. Team-Based Learning (TBL) in Higher Education Workshop, 16-17 November 2009, Faculty Development Program held at the **University of Sharjah**.
25. The 14th WSEAS International Conference on Applied Mathematics (MATH'09), Puerto De La Cruz, Tenerife, Canary Islands, **Spain**, December 14-16, 2009.
26. The 9th UAE MathDay, at Ajman University, **UAE**, April 9-10, 2011 (Presenting a talk): Limit Cycles of two Dimensional Differential Systems.

27. The World Congress on Engineering and Technology (CET2011), Oct. 28 to Nov. 2, 2011 in **China, Shanghai** (Presenting a talk).
28. The 10th UAE MathDay, at American University of Sharjah University, **UAE**, April 14, 2012 (Presenting a talk): Relaxation Oscillators.
29. Mathematical Methods for Information Science and Economics, The 17th WSEAS International Conference on Applied Mathematics (AMATH 12), Montreux, **Switzerland**, December 29-31, 2012, (Presenting a talk).
30. META'13-4th International Conference on Metamaterials, Photonic Crystals and Plasmonics. University of Sharjah, UAE, 18th March 2013.
31. **Workshop** on National Qualification Framework Emirates and Program and Course Outcomes and Assessment, University of Sharjah, UAE, 24th March 2013.
32. The 11th UAE MathDay, at United Arab Emirates University, **UAE**, April 27, 2013 (Presenting a talk): Periodic Planar Dynamical Systems with Given Periods.
33. EUROPEMENT, International Conference on Applied Mathematics and Computational Methods. (AMCM 2013), **Venice, Italy**, September 28-30, 2013 (Presenting a talk).
34. The 12th UAE MathDay, at American University in Dubai, **UAE**, April 19, 2014 (Presenting a talk): Period Function of a Lienard Equation.
35. Chairing a session in the Second International Conference on Arabs' and Muslims' History of Science (2015).
36. The 14th UAE MathDay, at NYU ABU DHABI, UAE, March 12, 2016, (Presenting a talk): Explicit Form of First Inrtgral and Existence of Limit Cycles of a Class of Rational Systems.
37. The 15th UAE MathDay, Monotonicity of the period function a generalized Lienard differential equations, March 11, 2017.

Seminars: (At University of Sharjah since 1998-Present)

I have presented the following seminars which are held in the Department of Basic Sciences, College of Arts and Sciences, University of Sharjah.

1. Normal Form of Vector Fields, 21/3/1999
2. Embedding Problem of Dynamical Systems, 25/4/1999.
3. Saddle-Node Bifurcation of Van der Pol Oscillation, 25/10/1999.
4. Order Reduction of D.E.s, 22/5/2000.
5. Oscillation of Linear Systems, 25/3/2001.
6. Oscillation of Matrix Linear Systems, 22/10/2001.
7. Decoupling Theory of D.E's, 4/3/2002.
8. Dynamic Equations on Time Scale, 11/4/2002.
9. Isomeric Func. & Periodic Difference Eq., 4/3/2003.
10. I.V.P. in Time Scale, 22/11/2003.
11. Nonintegral Criterion for Oscillations of Linear Hamiltonian Matrix Systems, 21/11/2004.
12. Nonintegral Criterion for Oscillations of Hamiltonian Systems, 5/3/2004, (At American University of Sharjah).
13. On Center of Dynamic Systems, 19 / 2 / 2005.
14. Non-Algebraic Limit Cycles for Polynomial Systems, 9 / 10 / 2005.
15. Periodicity of Generalized Lienard Equation, 31/10/2006.
16. Isochronicity of Hamiltonian System, 10/4/2007.
17. Oscillation of Dynamic Equations, 29/10/2007.
18. Invariant Algebraic Curves for Planar Systems. 21/4/2008.
19. Existence Conditions of Thirteen Limit Cycles in a Cubic System. 20/12/2011.

20. On Planar Dynamical Systems, 11/12/2012.
21. Monotonicity of Planar Differential System, 18 / 11 / 2013.
22. Integrability of Differential Systems of Rational Nonlinearities with a Star Node, 12 / 10 / 2014.
23. Dynamic Equations in Time Scale, 22 / 11 / 2015.
24. Workshop of Transitioning from Paper-bases Course File to e-Course File on Sunday, 5th March 2017.
25. Period Monotonicity for weighted-homogeneous Differential Systems, 9/4/2017.

Books:

1. I have written the following book (In Arabic): “**Ordinary Differential Equations and Stability Theory**” University of Technology, Higher Education Press 1990. (This book has been taught at the University of Technology, Baghdad, as a textbook for many years)
2. I have translated the following book to Arabic: **A First Course in Abstract Algebra, By Fraleigh.**

Research Publications in Refereed Journals

1. D. Arrowsmith, K.T. Al-Dosary, Bifurcations of Particular Forced Van Der Pol Oscil. *Journal of Italian Assos. of Theo. & Appl. Mechanics* 18 , 1983.
2. Khalil I.T. Al-Dosary, Embedding Problem of a Discrete Dynamical System in a Continuous One , *Journal of Engineering & Technology, Vol. 4, No. 1, 1986.*
3. R. Shekoury, K. Al-Dosary and A. Farhan, Normal Form of Vector Fields , *Iraqi Journal of Science, Vol. 31, No. 3, 1990.*
4. M. Alwash, Khalil T. Al-Dosary, A generalized Divergence Condition For the Existing of a Center ,*Iraqi Journal of Science, Vol. 31, No. 4, 1990.*
5. Khalil I.T. Al-Dosary, Catastrophe of Saddle - Node Bifurcation of a Parameterized Vector Field , *Journal of National Committee for Applied and Basic Science for Scientific Research, No. 2, (1995).*
6. Khalil I.T. Al-Dosary, Saddle-Node Singularity of The Variational Equations of Van der Pol, *Journal of Ins. of Math. & Comp Sci. (Math. Ser.), Vol. 13, No. 3 (2000) 283-286.*
7. Khalil T. Al-Dosary, Integral Criterion for Oscillation of Planer Systems. . *Journal of Ins of Math & Comp Sci. (Math. Ser.), Vol.14, No.3 (2001) 279-282.*
8. H. Abdullah and K.T. Al-Dosary, On The Separation of Difference Equations, *Acta Mathematica Academiae Paedagogicae Nyiregyhaziensis, AMAPN, Vol.17, No. 3, (2001), 155-159.*
9. Khalil T. Al-Dosary, Order Reduction of Differential Equations of Second order, *Journal of Ins. of Math. & Comp Sci. (Math. Ser.), Vol. 14, No.23 (2001) 141-147.*
10. H. Abdullah and K.T. Al-Dosary, The Oscillation of Linear First Order Differential Systems. *Applied Sciences APPS, Vol.5, No.1 (2003) pp 33-39.*
11. K.T. Al-Dosary and H. Abdullah, Decoupling Differential Equations, *Journal of Ins. of Math. & Comp. Sci. (Math. Ser.), Vol. 15 No.3 (2002) 203-208.*
12. K.T. Al-Dosary and H. Abdullah and Q. Al-Hassen, Order Reduction of Difference Equations, *Far East J. Math. Sci. (FJMS) 9(2), (2003), 149-158.*

13. R. Abu-Saris, K.T.Al-Dosary, Q. Al-Hassan, Characterization and Transformation of Invariants. *Journal of Difference Equations and Applications*, Vol.9, No.10, October (2003), pp.869-877.
14. K.T. Al-Dosary and H. Abdullah, Oscillation of Planer Differential Systems, *Journal of Interdisciplinary Mathematics*, Vol. 6 (2003), No. 3, pp. 301-308.
15. K.T. Al-Dosary and H. Abdullah, and D. Hussein, Short Note on Oscillation of Matrix Hamiltonian Systems, *Yokohama Mathematical Journal*, Vol.50, No.1, (2003), 23-30.
16. R. Abu-Saris, K.T. Al-Dosary, Complex Exponential Vandermonde Determinant with Application to Discrete Boundary Value Problem. *Difference and Differential Equation*, Vol. 42, (2004), p 103-110.
17. R. Abu-Saris, K. T. Al-Dosary, Invariants : A Functional-Equation Approach, *Journal of Difference Equations and Applications*, Vol. 10, No. 11, (2004), 1037-1040.
18. H.Abdullah and K.T. Al-Dosary, The Oscillation of Linear First-Order Differential Systems, *African Journal of Mathematics*, Vol.1, No.1 (2004), p. 13-21.
19. H. Abdullah and K.T. Al-Dosary, System Oscillation Conditions, *Journal of Interdisciplinary Mathematics*, Vol 8, No.1, (2005), 89-96.
20. Khalil T. Al-Dosary, Global Periodicity: An Inverse Problem, *Applied Mathematics Letters*, Vol.18, No.9, (2005), p1041-1045.
21. Khalil T. Al-Dosary, Nonintegral Criterion for Oscillation of Linear Matrix Hamiltonian Systems. *Journal of Mathematical Analysis and Application*, 323 (2006) 790-797.
22. Khalil T. Al-Dosary, The Monotonicity of Period Function For $x'' + f_2(x)x'^2 + f_1(x)x' + g(x) = 0$. *International Journal of pure and Applied Mathematics*, Vol. 32, No. 2, (2006), 167-189.
23. Khalil T. Al-Dosary, Nonalgebraic Limit Cycles for Parameterized Planar Polynomial Systems, *International Journal of Mathematics*, Vol. 18, No. 2 (2007) 1-11.
24. Khalil T. Al-Dosary, N. Al-Jubouri and H. Abdullah, On The Solution of Abel Differential Equation By Adomian Decomposition Method, *Applied Mathematical Sciences*, Vol. 2, (2008), No. 43, 2105-2118.
25. Khalil T. Al-Dosary, H. Abdullah and N. Al-Jubouri On The Period Function of a Quadratic Differential Equation, *International Journal of Contemporary Mathematical Sciences*, Vol. 3, (2008), No. 24, 1187-1199.
26. Khalil T. Al-Dosary, Oscillation of Second Order Differential Equations, *International Journal of pure and Applied Mathematics*, Vol. 46, No. 5, (2008), 729-738.
27. Khalil T. Al-Dosary, Period Function Monotonicity of Planar Vector Fields, *Journal of Computational and Applied Mathematics*, 224 (2009) 405-414.
28. Khalil T. Al-Dosary, Periodicity and Transformation of Difference Equations, "International Journal of Mathematical Analysis", Vol. 4, No. 12, (2010) 565-576
29. Khalil T. Al-Dosary, Inverse Integrating Factor for Class of Planar Differential Equations, *International Journal of Mathematical Analysis*, Vol. 4, No. 29, (2010), 1433-1446.
30. Khalil T. Al-Dosary, Existence and Uniqueness of Limit Cycles in a Class of Planar Differential Systems, *Journal of Applied Mathematics*, Volume 2011 (2011), Article ID 497164, 7 pages.

31. **Khalil T. Al-Dosary**, Relaxation Oscillators with Desired Periods, *Applied Mathematical Sciences*, Vol. 6, (2012), No. 105, 5223-5228.
32. **Khalil T. Al-Dosary**, Monotonicity of a Quadratic Lienard Equation, Proceedings of the 2013 International Conference on *Applied Mathematics and Computational Methods*, (AMCM 2013), Series 17, (2013).
33. **Khalil T. Al-Dosary**, Explicit Expression for First Integral of a Rational Type of Kolmogrov Systems, *International Journal of Mathematics Trends and Technology*, Vol. 12, No. 2, (2014)
34. **Khalil T. Al-Dosary**, Period Function of a Lienard Equation, *Journal Of Mathematical Sciences*, *Journal of Mathematical Sciences*, Vol. 1, (2014), 1-5.
35. **Khalil T. Al-Dosary**, First Integral of Differential Systems of Rational Nonlinearities with a Star Node, *Journal of Mathematical Sciences*, Vol. 2, No. 1, (2015), 12-16.
36. T. Salhi, and **Khalil T. Al-Dosary**, Cycles of a Generalized Lienard Equation, *Journal of Mathematical and Computational Science*, 6 (2016), No. 4, 507-514.
37. **Khalil T. Al-Dosary**, Explicit Form of First Integral and Limit Cycles for a Class of Planar Systems, *Journal of Mathematical Sciences*, 3 (2016) 43-47.
38. **Khalil T. Al-Dosary** and H. Kh. Abdullah, Period monotocity for weigh-homogeneous differential systems, it has been accepted in “International Journal of Mathematical Research.

Researches Accepted for Publication in Refereed Journal:

39. **Khalil T. Al-Dosary**, Monotonicity of period Function of Planar systems, accepted for publication in “*International Journal of Computational and Applied Mathematics*”.

Publications in Refereed Conference Proceedings:

40. **Khalil T. Al-Dosary**, Geometric Investigation for Phase Portraits of Planar Systems. Accepted for publication in Proceedings of 4th Intl. Conf. of Appl. Math. And Computing, Bulgaria, August 17, 2007, to be published in a special issue of the journal “International Journal of Pure and Applied Mathematics.
41. **Khalil T. Al-Dosary**, Planar Polynomial Systems with Non-Algebraic Limit Cycles. Accepted for publication in Proceedings of Intl Conf. of Numer. And Appl. Maths. (ICNAAM 2008), Greece, September 16, 2008, to be published in American Institute of Physics.
42. **Khalil T. Al-Dosary**, Oscillatory and Periodicity of Planar Systems, has been accepted for publication in IEE submitted to CET2011, The 2011 International Conference on Applied and Engineering Mathematics, Oct. 28-30, 2011, Shanghai, China.
43. **Khalil T. Al-Dosary**, Explicit Expression of Limit Cycles of Planar Systems with Desired Periods, *Mathematical Methods for Information Science and Economics*, Proceedings of the 17th WSEAS International Conference on Applied Mathematics (AMATH 12), Montreux, Switzerland, December 29-31, 2012.
44. **Khalil T. Al-Dosary**, Monotonicity of a Quadratic Lienard Equation, Published in Recent Advances in Applied Mathematics and Computational Methods, the Proceedings of the 2013 International Conference on Applied Mathematics and Computational Methods (AMCM 2013), September 28-30, 2013, Venice, Italy.

Research Submitted (Under Review):

Research in Progress:

45. Number of Limit Cycles of Planar Systems .
46. Inverse Integrating Factor of Rational Vector Fields.

Reviewing for Scientific Journals:

I have been selected to be a reviewer for the following International Mathematical Journals

1. **Reviewer** for Mathematical Reviews (MR).
2. **Reviewer** for the Journal of Mathematical Analysis and Applications.
3. **Reviewer** for World Scientific and Engineering Academy and Society (WSES).
4. **Reviewer** for Mathematical Reviews (MR). Title: Small amplitude limit cycles for the polynomial Lienard system, by M. Borodzik and H. Zoladik. Published in *J. Differential Equations* 245 (2008) 2522-2533.
5. **Reviewer** for Mathematical Reviews (MR). Title: Finite cyclicity of nilpotent graphics of pp-type surrounding a center, by Roussarie, R. and Rousseau, C. Published in *Bull. Belg. Math. Soc. Simon Stevin* 15 (2008), no. 5, *Dynamics in perturbations*, 889-920
6. **Reviewer** for Mathematical Reviews (MR). Title: Singularity Confinement Test for Ultradiscrete Equations with Parity Variables, by Mimura N., Isojima S., Murata M. and Satsuma J. Published in *J. Phys. A: Theor.* 40 (2009) 315206 (7pp).
7. **Reviewer** for Mathematical Reviews (MR). Title: Analytic Nilpotent Centers with Analytic Integral, I.A. Garcia, J.Gine, *Nonlinear Analysis*, 72, (2010), No. 9-10, 3732-3738.
8. **Reviewer** for Mathematical Reviews (MR). Title: Third order difference equations with two rational integrals, Sahadevan, R. and Uman Maheswari, C., *J. Phys. A: Math. Theor.* 42(2009), no. 45, 454017 (11pp)
9. **Reviewer** for Mathematical Reviews (MR). Title: New Results on the Study of Z_q -Equivariant Planar Polynomial Vector Fields, Jibin Li, Y. Liu, *Qualitative Theory of Dynamical Systems*, 9 (2010), No. 1-2, 167-219.
10. **Reviewer** for Mathematical Reviews (MR). Title: Existence Conditions of Thirteen Limit Cycles in a Cubic System, J. Yang, M. Han, Jibin Li, and P. Yu, *International Journal of Bifurcation and Chaos*, Vol. 20, No. 8 (2010), 2569-2577.
11. **Reviewer** for Mathematical Reviews (MR). Title: Integrability of a nuclear spin generator, Claudia Valls, *Bull. Sci. Math.* 135 (2011) 435-441.
12. **Reviewer** for Mathematical Reviews (MR). Title: Integrability of Lotka-Volterra type systems of degree 4, *Journal of Mathematical Analysis and Applications*, 388 (2012), 1107-1116.
13. **Reviewer** for Mathematical Reviews (MR). Ref. No.: MR2933191, Title:

- Oscillation of nonlinear difference equations with delayed argument, By Pinelas, S. and Koplatadze, R, Published in: Communications in Applied Analysis, 16 (2012), No. 1, 87-96.
14. **Reviewer** for Mathematical Reviews (MR). Ref. No.: MR2968990, Title: Limit cycles for planar semi-quasi-homogeneous polynomial vector fields, By Yulin Zhao, Published in: J. of Math. Anal. And Appl. 397 (2013) 276-284.
 15. **Reviewer** for Mathematical Reviews (MR). Ref. No.: MR3007730, Title: Bifurcation of isolated closed orbits from degenerated singularity in \mathbb{R}^3 , By J. Huang, Y. Zhao, published in Discrete and continuous dynamical systems, Vol. **33**, No. **7**, (2013).
 16. **Reviewer** for Mathematical Reviews (MR). Ref. No.: MR3060910, Title: Analytical Integrability for Some Degenerate Planar Systems, By A. Algaba, C. Garcia and J. Jine, published in Communication on Pure and Applied , Vol. 12, No. 6, (2013).
 17. **Reviewer** for Mathematical Reviews (MR). Ref. No.: MR3178437, Shin, Jong Son; Naito, Toshiki, Representations of solutions, translation formulae and asymptotic behavior in discrete linear systems and periodic continuous linear systems. Published in *Hiroshima Math. J.* 44(2014), no.1, 75-126.
 18. **Reviewer** for Mathematical Reviews (MR). Ref. No.: MR3213923, Wang, Qinlong\ and Huang, Wentao, Integrability and linearizability for Lotka-Volterra systems with the $3:-q$ resonant saddle point, *Adv. Difference Equ.* 2014, 2014:23, 15~pp.
 19. **Reviewer** for Mathematical Reviews (MR). Ref. No.: MR3285975, Yi-rong LIU, Ji-bin LI, Z_2 -Equivariant Cubic system Which Yields 13 Limit Cycles, Acta Mathematicae Applicatae Sinica, English Seires, Vol. 30, (2014) 781-800.
 20. **Reviewer** for Mathematical Reviews (MR). Ref. No.: MR3402872, Linping Peng, Lianghaolong Lu and Zhaoshang Feng, A Higher-Order Period Function and Its Application, *Intn. J. Bifur. Chaos Appl. Sci. Engrg.* 25(2015), no. 10, 1550140.

Refereeing for Scientific Journals and Universities:

I have refereed the following researches for Mathematical Journals

1. **Referee** for a paper “On Some Integral Inequalities of Gronwall Type“ in (2004), for the journal: Journal of Al azhar University –Gaza.
2. **Referee** for a paper “On Solution of Some Differential Equations“ in (2005), for the journal: The University Journal of Pure and Applied Sciences.
3. **Referee** for a paper “Oscillation Criteria of Second Order QLND differential Equations” in (2006), for the journal: Mathematical and Computer Modeling.
4. **Referee** for a paper “Oscillation of 2nd order Quasilinear DE with Delay” in (2007), for the journal: Computer and Mathematics with Applications.
5. **Referee** for a paper “Trasnormal Partial Tube” in (2008), for Mu'tah University, Jordan.
6. **Referee** for a paper “Non Algebraic Limit Cycles“ in (2008), for the journal: Anal. Univ. Oradea Fasc. Math.
7. **Referee** for a paper “On the Fractional Order m-point BVP in reflexive Banach Space” in (2008), for the journal: Journal of Computational and Applied Mathematics.

8. **Referee** for a paper “Mechanical Systems and their Associated Lagrange Geometries” in (2008), for the journal: International Journal of Computer Mathematics.
9. **Referee** for a paper “Two Algorithms for Solving a General BPL Systems” in (2008), for the journal: International Journal of Computer Mathematics.
10. **Referee** for Evaluation Form of Academic Promotion at Al-Hussein Bin Talal University (2009).
11. **Referee** for papers to be considered for possible publication in the KAUST MUSEUM, (2009).
12. **Referee** for book to be considered for possible publication in the Dubai International Holy Quran Award. (2010).
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17. **Referee** and evaluation for the research production of Dr. Suha N. Al-Rawi which has been submitted to be considered for possible promotion to the rank Professorship at University of Technology, Baghdad/Iraq, 28/8/2013.
18. **Referee** and evaluation for the research production of Dr. Omar Khalil Jaradat which has been submitted to be considered for possible promotion to the rank Professorship at Mu'tah University, College of Science 5/10/2013.
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