

CURRICULUM VITAE

Prof. Dr. Elsayed Mohammed Mohammed Elsayed



Personal Information

Name : Elsayed Mohammed Mohammed Elsayed

Surname: E. M. Elsayed

Date of birth: September 21, 1978. Age: 39 years.

Nationality: Egyptian.

Qualification: Ph. D. in pure mathematics (difference equation)
from Faculty of Science, Mansoura University, Egypt (October 2006).

Current Position: Professor of Mathematics, Mathematics
Department, Faculty of Science, King AbdulAziz
University, Kingdom of Saudi Arabia.

Present Address: King Abdulaziz University, Faculty of Science,
Mathematics Department, P. O. Box 80203, Jeddah 21589,
Saudi Arabia.

Permanent Address: Department of Mathematics, Faculty of
Science, Mansoura University, Mansoura 35516,
Egypt.

Mobile: Saudi Arabia: 0553866573,
Egypt: 002 0502213106.

Fax: 002 050 2246781

E-mail: emmelsayed@yahoo.com, emelsayed@mans.edu.eg,
emelsayed2003@yahoo.com

Marital Status: Married with two daughters and one son.

Chronology of Education:

B. Sc., 1999: in the Mathematics from Mansoura University, with
grade Very good with honor degree.

Postgraduate Courses, 2001: in the Mathematics from Mansoura
University.

M. Sc. Degree, 2004: in the field of Difference Equations

Thesis title: Qualitative Study of Some Difference Equations.

PH. D. Degree, 2006: in the field of Difference Equations

Thesis title: Asymptotic Behavior of Certain Difference Equations.

Language Proficiency: Arabic (mother tongue) and English (good).

EXPERIENCES:

Demonstrator: (November 2001 – February 2004): Mathematics
Department, Faculty of Science, Mansoura University.

Assistant lecturer: (February 2004 – November 2006): Mathematics
Department, Faculty of Science, Mansoura University.

Lecturer: (November 2006 – October 2009): Mathematics Department, Faculty of Science, Mansoura University, Egypt.

Assistant professor: (October 2009 – June 2010): Albaha Private College of Science, Kingdom of Saudi Arabia.

Assistant professor: (September 2010 – August 2012): Mathematics Department, Faculty of Science, King AbdulAziz University, Kingdom of Saudi Arabia.

Associate professor: (August 2012 – August 2017): Mathematics Department, Faculty of Science, King AbdulAziz University, Kingdom of Saudi Arabia.

Professor: (September 2017 – now): Mathematics Department, Faculty of Science, King AbdulAziz University, Kingdom of Saudi Arabia.

TEACHING EXPERIENCES:

- ❖ **In Egypt : Mathematical Courses:** General Mathematics, Mathematics I (Math 15), Mathematics II (Math 24), Difference Equations, Calculus I (Math 101), Calculus II (Math 102) , Calculus III (Math 215), Analytic Geometry, Real Analysis, Differential Equations, Abstract Algebra and Linear Algebra.
- ❖ **In Albaha Private College of Science, Kingdom of Saudi Arabia:** { Mathematics I (Math 015) – Mathematics II (Math 024) – Calculus I (Math 101) – Calculus III (Math 215) – Linear

Algebra & Differential Equations (Math 211) – Engineering Economy (CEN 412) }.

❖ **In King AbdulAziz University, Kingdom of Saudi Arabia:**

{ Calculus I (Math 110) – (Math 111) – Calculus III (Math 203) – (Math 390) – (Math 482) }

Research interests:

- ✓ Difference Equations (Local stability, Global Stability, Boundedness, Semi-Cycles, Oscillation, Periodicity and How to find the solutions of some difference equations, Systems of Difference equations { Find the solutions – Studying Behavior of the solutions }).

LIST OF PUBLICATIONS:

- 1- E. M. Elabbasy, H. El-Metwally and **E. M. Elsayed**, On the Periodic Nature of Some Max-type Difference Equations, International Journal of Mathematics and Mathematical Sciences, 2005:14, (2005), 2227–2239.
- 2- E. M. Elabbasy, H. El-Metwally and **E. M. Elsayed**, On the Difference Equation $x_{n+1} = ax_n - bx_n / (cx_n - dx_{n-1})$, Advances in Difference Equations, Volume, 2006, Article ID 82579, (2006), 1–10.
- 3- E. M. Elabbasy, H. El-Metwally and **E. M. Elsayed**, Global Attractivity and Periodic Character of a Fractional Difference Equation of Order Three, Yokohama Mathematical Journal, Vol. 53, (2007), 89-100.

- 4- E. M. Elabbasy, H. El-Metwally and **E. M. Elsayed**, On the Difference Equation
$$x_{n+1} = \frac{\alpha x_{n-k}}{\beta + \gamma \prod_{i=0}^k x_{n-i}}$$
, Journal of Concrete and Applicable Mathematics, 5(2), (2007), 101-113.
- 5- E. M. Elabbasy, H. El-Metwally and **E. M. Elsayed**, Qualitative Behavior of Higher Order Difference Equation, Soochow Journal of Mathematics, Vol. 33, No. 4, (2007), 861-873.
- 6- E. M. Elabbasy, H. El-Metwally and **E. M. Elsayed**, On the Solutions of a Class of Difference Equations Systems, Demonstratio Mathematica, 41(1), (2008), 109-122.
- 7- E. M. Elabbasy, H. El-Metwally and **E. M. Elsayed**, Qualitative Behavior of Some Max-type Difference Equations, Vietnam Journal of Mathematics, 36 (1), (2008), 47–61.
- 8- E. M. Elabbasy, H. El-Metwally and **E. M. Elsayed**, On the Difference Equation $x_{n+1} = (\alpha x_{n-1} + \beta x_{n-k}) / (Ax_{n-1} + Bx_{n-k})$, Acta Mathematica Vietnamica, 33 (1), (2008), 85-94.
- 9- E. M. Elabbasy, H. El-Metwally and **E. M. Elsayed**, On the Difference Equation $x_{n+1} = (a_0 x_n + a_1 x_{n-1} + \dots + a_k x_{n-k}) / (b_0 x_n + b_1 x_{n-1} + \dots + b_k x_{n-k})$, Mathematica Bohemica, Vol. 133, No. 2, (2008), 133 - 147.
- 10- E. M. Elabbasy, H. El-Metwally and **E. M. Elsayed**, On the Difference Equation $x_{n+1} = (a x_n^2 + b x_{n-1} x_{n-k}) / (c x_n^2 + d x_{n-1} x_{n-k})$, Sarajevo Journal of Mathematics, Vol. 4 (17), No. 2, (2008), 1 - 10.
- 11- E. M. Elabbasy and **E. M. Elsayed**, On the Global Attractivity of Difference Equation of Higher Order, Carpathian Journal of Mathematics, 24, No. 2, (2008), 45–53.
- 12- R. P. Agarwal and **E. M. Elsayed**, Periodicity and Stability of Solutions of Higher Order Rational Difference Equation, Advanced Studies in Contemporary Mathematics, Volume 17 (2), (2008), 181–201.

13- **E. M. Elsayed**, Qualitative Behavior of A Rational Recursive Sequence, Indagationes Mathematicae, New Series, 19(2), (June – 2008), 189–201.

Remark:- This paper take four times the Top 25 Hottest Articles as follows:

a- **From July – September 2009.**

b- **From April – July 2010.**

c- **From April – July 2011.**

d- **From April – July 2012.**

14- **E. M. Elsayed**, On the Difference Equation $x_{n+1} = x_{n-5} / (-1 + x_{n-2} x_{n-5})$, Interenational Journal of Contemporary Mathematical Sciences, Vol. 3 (33), (2008), 1657–1664.

15- **E. M. Elsayed**, On the Solution of Recursive Sequence of Order Two, Fasciculi Mathematici, Vol. 40, (2008), 5–13.

16- **E. M. Elsayed**, On the Solutions of Higher Order Rational System of Recursive Sequences, Mathematica Balkanica, Vol. 21 (2008), Fasc. 3-4, 287–296.

17- **E. M. Elsayed**, Qualitative Behavior of Difference Equation of Order Three, Acta Scientiarum Mathematicarum (Szeged), Volume 75, Numbers 1-2, (2009), 113–129.

18- E. M. Elabbasy and **E. M. Elsayed**, On the Solution of Recursive Sequence $x(n+1) = \max\{x(n-2), 1/x(n-2)\}$, Fasciculi Mathematici, Vol. 41, (2009), 55–63.

19- H. El-Metwally, E. M. Elabbasy, **E. M. Elsayed**, The Periodicity Character of a Difference Equation, International Journal of Nonlinear Science, Vol. 8, No. 3, (2009), 291-299.

20- E. M. Elabbasy and **E. M. Elsayed**, Dynamics of a Rational Difference Equation, Chinese Annals of Mathematics, Series B, 30 B (2), (March – 2009), 187–198.

- 21- **E. M. Elsayed** and S. Stevic, On the max-type equation $x(n+1) = \max\{A/x(n), x(n-2)\}$, *Nonlinear Analysis: Theory, Methods & Applications*, Volume 71, Issues 3-4, August 2009, 910–922.
- 22- **E. M. Elsayed**, A Solution Form of a Class of Rational Difference Equations, *International Journal of Nonlinear Science*, Vol. 8, No. 4 (2009), 402-411.
- 23- **E. M. Elsayed**, On the Difference Equation $x_{n+1} = x_{n-5} / (+ 1 - x_{n-2} x_{n-5})$, *Thai Journal of Mathematics*, Vol. 7, Number 1, (2009), 1-8.
- 24- **E. M. Elsayed**, Dynamics of a Recursive Sequence of Higher Order, *Communications on Applied Nonlinear Analysis*, Volume 16, Number 2, (2009), 37–50.
- 25- **E. M. Elsayed** and Bratislav D. Iricanin, On a max-type and a min-type difference equation, *Applied Mathematics and Computations*, 215 (2009), 608–614.
- 26- **E. M. Elsayed**, Qualitative Behavior of Difference Equation of Order Two, *Mathematical and Computer Modelling*, 50 (2009), 1130–1141.
- 27- **E. M. Elsayed**, On the Solution of a Rational Recursive Sequence of Big Order, *Folia Mathematica*, 15(1) (2009), 25–39.
- 28- **E. M. Elsayed**, Dynamics of a Rational Recursive Sequences, *International Journal of Difference Equations*, Volume 4, Number 2, (2009), 185–200.
- 29- **E. M. Elsayed**, On the Global Attractivity and the Solution of Recursive Sequence, *Studia Scientiarum Mathematicarum Hungarica*, Volume 47, Number 3, September 2010, 401-418.
- 30- E. M. Elabbasy and **E. M. Elsayed**, On the Solutions of a Class of Difference Equations of Higher Order, *International Journal of Mathematics and Statistics*, Volume 6, Number A09, Autumn 2010, 57–68.

- 31- **E. M. Elsayed**, Qualitative Properties for a Fourth Order Rational Difference Equation, *Acta Applicandae Mathematicae*, Volume 110, Issue 2 (2010), 589–604.
- 32- **E. M. Elsayed**, Expressions of Solutions for a Class of Difference Equation, *Analele Stiintifice ale Universitatii Ovidius Constanta, Seria Matematica*, 18 (1) (2010), 99–114.
- 33- Bratislav D. Iricanin and **E. M. Elsayed**, On the Max-Type Difference Equation $x_{(n+1)} = \max\{A/x_{(n)}, x_{(n-2)}\}$, *Discrete Dynamics in Nature and Society*, Volume 2010 (2010), Article ID 675413, 13 pages.
- 34- **E. M. Elsayad**, Bratislav Iricanin and Stevo Stevic, On The Max-Type Equation, *Ars Combinatoria*, Volume 95 (2010), 187–192.
- 35- **E. M. Elsayed**, On the Global Attractivity and the Periodic Character of a Recursive Sequence, *Opuscula Mathematica*, Volume 30, Number 4, (2010), 431–446.
- 36- **E. M. Elsayed**, On the Solutions of a Rational System of Difference Equations, *Fasciculi Mathematici*, 45 (2010), 25–36.
- 37- **E. M. Elsayed**, Solution and Behavior of a Rational Difference Equations, *Acta Universitatis Apulensis*, 23 (2010), 233–249.
- 38- R. P. Agarwal and **E. M. Elsayed**, On the Solution of Fourth-Order Rational Recursive Sequence, *Advanced Studies in Contemporary Mathematics*, Volume 20 (4) (2010), 525–545.
- 39- **E. M. Elsayed**, Dynamics of Recursive Sequence of Order Two, *Kyungpook Mathematical Journal*, 50 (2010), 483-497.
- 40- E. M. Elabbasy and **E. M. Elsayed**, Global Attractivity and Periodic Nature of a Difference Equation, *World Applied Sciences Journal*, 12 (1) (2011), 39–47.
- 41- **E. M. Elsayed**, Behavior of a Rational Recursive Sequences, *Studia Univ. " Babes — Bolyai ", Mathematica*, Volume LVI (1) (March – 2011), 27–42.

- 42- **E. M. Elsayed**, Solution of a Recursive Sequence of Order Ten, *General Mathematics*, Vol. 19, No. 1 (2011), 145–162.
- 43- **E. M. Elsayed**, Solution and Attractivity for a Rational Recursive Sequence, *Discrete Dynamics in Nature and Society*, Volume 2011, Article ID 982309, 17 pages.
- 44- E. M. Elabbasy , H. El-Metwally and **E. M. Elsayed**, Global Behavior of the Solutions of Difference Equation, *Advances in Difference Equations* 2011, **2011**: 28.
- 45- **E. M. Elsayed**, On the Solution of Some Difference Equations, *European Journal of Pure and Applied Mathematics*, 4(3) (2011), 287–303.
- 46- **E. M. Elsayed**, On the Dynamics of a Higher Order Rational Recursive Sequence, *Communications in Mathematical Analysis*, Volume 12, Number 1, (2012), 117–133.
- 47- **E. M. Elsayed**, Solutions of Rational Difference System of Order Two, *Mathematical and Computer Modelling*, 55 (2012), 378–384.
- 48- N. Touafek and **E. M. Elsayed**, On the Solutions of Systems of Rational Difference Equations, *Mathematical and Computer Modelling*, 55 (2012), 1987–1997.
- 49- E. M. Elabbasy, H. El-Metwally and **E. M. Elsayed**, Some Properties and Expressions of Solutions for a Class of Nonlinear Difference Equation, *Utilitas Mathematica*, 87 (2012), 93-110.
- 50- **E. M. Elsayed**, M. M. El-Dessoky and Abdullah Alotaibi, On the Solutions of a General System of Difference Equations, *Discrete Dynamics in Nature and Society*, Volume 2012, Article ID 892571, 12 pages.
- 51- N. Touafek and **E. M. Elsayed**, On the periodicity of some systems of nonlinear difference equations, *Bull. Math. Soc. Sci. Math. Roumanie*, Tome 55 (103), No. 2, (2012), 217–224.

- 52- H. El-Metwally and **E. M. Elsayed**, Qualitative Study of Solutions of some Difference Equations, *Abstract and Applied Analysis*, Volume 2012, Article ID 248291, 16 pages, doi:10.1155/2012/248291.
- 53- **E. M. Elsayed** and M. M. El-Dessoky, Dynamics and Behavior of a Higher Order Rational Recursive Sequence, *Advances in Difference Equations* 2012, **2012**:69 (28 May 2012).
- 54- H. El-Metwally, R. Alsaedi and **E. M. Elsayed**, The Dynamics of the Solutions of some Difference Equations, *Discrete Dynamics in Nature and Society*, Volume 2012, Article ID 475038, 8 pages.
- 55- M. Mansour, M. M. El-Dessoky and **E. M. Elsayed**, The form of the solutions and periodicity of some systems of difference equations, *Discrete Dynamics in Nature and Society*, Volume 2012, Article ID 406821, 17 pages. doi:10.1155/2012/406821.
- 56- H. El-Metwally and **E. M. Elsayed**, Solution and Behavior of a Third Rational Difference Equation, *Utilitas Mathematica*, 88 (2012), 27–42.
- 57- M. A. Obaid, **E. M. Elsayed** and M. M. El-Dessoky, Global Attractivity and Periodic Character of Difference Equation of Order Four, *Discrete Dynamics in Nature and Society*, Volume 2012, Article ID 746738, 20 pages, doi:10.1155/2012/746738.
- 58- **E. M. Elsayed**, Solution and dynamics of a fourth rational difference equation, *International Journal of Physical Sciences*, Vol. 7 (48), pp. 6191-6202, 23 December, 2012.
- 59- **E. M. Elsayed**, Behavior and Expression of the Solutions of Some Rational Difference Equations, *Journal of Computational Analysis and Applications*, 15 (1) (2013), 73-81.
- 60- **E. M. Elsayed**, Solution of a Rational Recursive Sequences of Order Three, *Functiones et Approximatio, Commentarii Mathematici*, Volume 48, Number 1 (2013), 7-17.

- 61- **E. M. Elsayed**, M. M. El-Dessoky, and M. A. Alghamdi, On the solutions of some systems of difference equations, Archives Des Sciences, Vol. 66, No. 5, May 2013, 369-378.
- 62- H. El-Metwally and **E. M. Elsayed**, Form of solutions and periodicity for systems of difference equations, Journal of Computational Analysis and Applications, 15(5) (2013), 852-857.
- 63- **E. M. Elsayed** and H. A. El-Metwally, On the solutions of some nonlinear systems of difference equations, Advances in Difference Equations 2013, 2013:16, doi:10.1186/1687-1847-2013-161, Published: 7 June 2013.
- 64- **E. M. Elsayed**, M. Mansour and M. M. El-Dessoky, Solutions of fractional systems of difference equations, Ars Combinatoria, Volume CX, July, 2013 pp. 469-479.
- 65- M. Mansour, M. M. El-Dessoky and **E. M. Elsayed**, On the solution of rational systems of difference equations, Journal of Computational Analysis and Applications, 15 (5) (2013), 967-976.
- 66- M. Alghamdi, **E. M. Elsayed** and M. M. Eldessoky, On the Solutions of Some Systems of Second Order Rational Difference Equations, Life Sci J., 10 (3) (2013), 344-351.
- 67- H. El-Metwally, **E. M. Elsayed** and E. M. Elabbasy, On the Solutions of Difference Equations of Order Four, Rocky Mountain Journal of Mathematics, 43 (3) (2013), 877-894.
- 68- H. El-Metwally, R. Alsaedi, **E. M. Elsayed**, Discussing the Existence of the Solutions and Their Dynamics of some Difference Equations, Life Sci J., 10(3) (2013), 361-370.
- 69- M. M. El-Dessoky, **E. M. Elsayed** and E. O. Alzahrani, On Some System of Three Nonlinear Difference Equations, Life Sci. J., 10(3) (2013), 647-657.

- 70- M. M. El-Dessoky, M. Mansour and **E. M. Elsayed**, Solutions of some rational systems of difference equations, *Utilitas Mathematica*, 92 (2013), 329-336.
- 71- **E. M. Elsayed** and M. M. El-Dessoky, Dynamics and Global Behavior for a Fourth-Order Rational Difference Equation, *Hacettepe Journal of Mathematics and Statistics*, 42 (5) (2013), 479–494.
- 72- **E. M. Elsayed**, M. M. El-Dessoky and Asim Asiri, Dynamics and Behavior of a Second Order Rational Difference equation, *Journal of Computational Analysis and Applications*, 16 (4) (2014), 794–807.
- 73- S. R. Mahmoud, A. M. Abd-Alla, K. S. Al-Basyouni, A. T. Ali, and **E. M. Elsayed**, On Problem of the Radial Vibrations in Non-Homogeneous Orthotropic Hollow Sphere Subject to the Initial Stress and Rotation, *Journal of Computational and Theoretical Nanoscience*, 11 (2014), 1486–1491.
- 74- **E. M. Elsayed** and C. Cinar, On the solutions of some systems of Difference equations, *Utilitas Mathematica*, 93 (2014), 279-289.
- 75- Y. Yazlik, **E. M. Elsayed** and N. Taskara, On the Behaviour of the Solutions of Difference Equation Systems, *Journal of Computational Analysis and Applications*, 16 (5) (2014), 932–941.
- 76- Q. Din, and **E. M. Elsayed**, Stability analysis of a discrete ecological model, *Computational Ecology and Software*, 4 (2) (2014), 89–103.
- 77- M. Tafaoli-Masoule, A. Bahrami, and **E.M. Elsayed**, Optimum design parameters and operating condition for maximum power of a direct methanol fuel cell using analytical model and genetic algorithm, *Energy*, 70 (2014), 643–652.
- 78- S. R. Mahmoud, A. M. Abd-Alla, **E. M. Elsayed**, and K. S. Al-Basyouni, Effect of the Non-Homogeneity on Wave Propagation in the Composite Infinite Cylinder, *Journal of Computational and Theoretical Nanoscience*, 11 (2014), 1887-1890.

- 79- **E. M. Elsayed**, M. M. El-Dessoky and E. O. Alzahrani, The Form of The Solution and Dynamics of a Rational Recursive Sequence, *Journal of Computational Analysis and Applications*, 17 (1) (2014), 172–186.
- 80- S. R. Mahmoud, A. M. Abd-Alla, **E. M. Elsayed**, and Arian Bahrami, Numerical Solutions of an Infinite Non-Homogeneous Thermo-Elastic Media Subject to the Rotation, *Journal of Computational and Theoretical Nanoscience*, 11 (2014), 2489-2494.
- 81- **E. M. Elsayed**, Solution for systems of difference equations of rational form of order two, *Computational and Applied Mathematics*, October 2014, Volume 33, Issue 3, pp 751-765.
- 82- **E. M. Elsayed** and H. El-Metwally, Stability and Solutions for Rational Recursive Sequence of Order Three, *Journal of Computational Analysis and Applications*, 17 (2) (2014), 305–315.
- 83- **E. M. Elsayed**, S. R. Mahmoud and A. T. Ali, Expression and dynamics of the solutions of some rational recursive sequences, *Iranian Journal of Science and Technology Transaction A: Science*, Volume 38, Issue 3.1, Autumn 2014, 295-303.
- 84- **E. M. Elsayed**, On the solutions and periodic nature of some systems of difference equations, *International Journal of Biomathematics*, 7 (6) (2014), 1450067, (26 pages).
- 85- Yacine Halim, Nouressadat Touafek and **Elsayed Mohamed Elsayed**, Closed form solutions of some systems of rational difference equations in terms of Fibonacci numbers, *Dynamics of Continuous, Discrete and Impulsive Systems, Series A: Mathematical Analysis*, 21 (2014), 473-486.
- 86- M. M. El-Dessoky, **E. M. Elsayed**, and M. Alghamdi, Solutions and periodicity for some systems of fourth order rational difference equations, *Journal of Computational Analysis and Applications*, 18 (1) (2015), 179–194.

- 87- **E. M. Elsayed**, New method to obtain periodic solutions of period two and three of a rational difference equation, *Nonlinear Dynamics*, 79(1) (2015), 241-250.
- 88- M. M. El-Dessoky, and **E. M. Elsayed**, On the solutions and periodic nature of some systems of rational difference equations, *Journal of Computational Analysis and Applications*, 18 (2) (2015), 206-218.
- 89- **E. M. Elsayed** and T. F. Ibrahim, Solutions and Periodicity of a Rational Recursive Sequences of Order Five, *Bulletin of the Malaysian Mathematical Sciences Society*, 38 (1) (2015), 95-112.
- 90- E. O. Alzahrani, M. M. El-Dessoky, **E. M. Elsayed**, and Yang Kuang, Solutions and Properties of Some Degenerate Systems of Difference Equations, *Journal of Computational Analysis and Applications*, 18 (2) (2015), 321-333.
- 91- N. Touafek and **E. M. Elsayed**, On a second order rational systems of difference equation, *Hokkaido Mathematical Journal*, 44 (1) (2015), 29–45.
- 92- **E. M. Elsayed**, S. R. Mahmoud, and A. T. Ali, The Dynamics and the Solutions of some Rational Difference Equations, *Journal of Computational Analysis and Applications*, 18 (3) (2015), 430-439.
- 93- S. Stevic, M. A. Alghamdi, A. Alotaibi, and **Elsayed M. Elsayed**, Solvable product–type system of difference equations of second order, *Electronic Journal of Differential Equations*, Vol. 2015 (2015) (169), 1–20.
- 94- H. El-Metwally, **E. M. Elsayed** and H. El-Morshedy, Dynamics of some Rational Difference Equations, *Journal of Computational Analysis and Applications*, 18 (6) (2015), 993-1003.
- 95- **E. M. Elsayed**, On a system of two nonlinear difference equations of order two, *Proceedings of the Jangjeon Mathematical Society*, 18 (3) (2015), 353-368.

- 96- **E. M. Elsayed**, The expressions of solutions and periodicity for some nonlinear systems of rational difference equations, *Advanced Studies in Contemporary Mathematics*, 25 (3) (2015), 341-367.
- 97- **E. M. Elsayed** and H. El-Metwally, Global Behavior and Periodicity of Some Difference Equations, *Journal of Computational Analysis and Applications*, 19 (2) (2015), 298-309.
- 98- **E. M. Elsayed** and T. F. Ibrahim, Periodicity and solutions for some systems of nonlinear rational difference equations, *Hacettepe Journal of Mathematics and Statistics*, 44 (6) (2015), 1361–1390.
- 99- Asim Asiri, **E. M. Elsayed**, and M. M. El-Dessoky, On the Solutions and Periodic Nature of Some Systems of Difference Equations, *Journal of Computational and Theoretical Nanoscience*, 12 (10) (2015), 3697-3704.
- 100- N. Touafek and E. M. Elsayed, On a third order rational systems of difference equations, *Analele Stiintifice Ale Universitatii al i Cuza Din Iasi Serie Noua Matematica*, 61 (2) (2015), 367-380.
- 101- M. M. El-Dessoky and **E. M. Elsayed**, On a solution of system of three fractional difference equations, *Journal of Computational Analysis and Applications*, 19 (4) (2015), 760-769.
- 102- Debaldev Jana and **Elsayed M. Elsayed**, Interplay between strong Allee effect, harvesting and hydra effect of a single population discrete-time system, *International Journal of Biomathematics*, Vol. 9, No. 1 (2016), 1650004, (25 pages).
- 103- H. El-Metwally and **E. M. Elsayed**, Qualitative Behavior of some Rational Difference Equations, *Journal of Computational Analysis and Applications*, 20 (2) (2016), 226-236.
- 104- **E. M. Elsayed**, and Abdul Khaliq, The Dynamics and Global Attractivity of a Rational Difference Equation, *Advanced Studies in Contemporary Mathematics*, 26 (1) (2016), 183-202.

- 105- A. Khaliq, and **E. M. Elsayed**, The Dynamics and Solution of some Difference Equations, The Journal of Nonlinear Science and Applications (JNSA), Volume 9, Issue 3, (2016), 1052-1063.
- 106- A. M. Ahmed and **E. M. Elsayed**, The expressions of solutions and the periodicity of some rational difference equations systems, Journal of Applied Mathematics and Informatics (JAMI), Vol. 34 (1-2) (2016), 35 – 48.
- 107- **E. M. Elsayed**, Dynamics and behavior of a higher order rational difference equation, The Journal of Nonlinear Science and Applications (JNSA), 9 (4) (2016), 1463-1474.
- 108- **E. M. Elsayed**, Abdullah Alotaibi, and Hajar A. Almaylubi, On the Periodicity and Solutions of Some Difference Equations Systems, Journal of Computational and Theoretical Nanoscience, 13 (3) (2016), 1624-1628.
- 109- **E. M. Elsayed** and A. M. Ahmed, Dynamics of a three-dimensional systems of rational difference equations, Mathematical Methods in The Applied Sciences, 39 (5) (2016), 1026–1038.
- 110- **E. M. Elsayed**, and Asma Alghamdi, The form of the solutions of nonlinear difference equations systems, The Journal of Nonlinear Science and Applications (JNSA), 9 (5) (2016), 3179-3196.
- 111- A. Khaliq, and **E. M. Elsayed**, Qualitative Properties of Difference Equation of Order Six, Mathematics, 4 (2) (2016): 24.
- 112- Abdul Khaliq, **E. M. Elsayed**, and Faris Alzahrani, Periodicities and Global Behaviour of Difference Equation of Order Eight, Journal of Computational and Theoretical Nanoscience, 13 (2016), 4932–4940.
- 113- **E. M. Elsayed** and Asma Alghamdi, Dynamics and Global Stability of Higher Order Nonlinear Difference Equation, Journal of Computational Analysis and Applications, 21 (3) (2016), 493-503.

- 114- Faris Alzahrani, Abdul Khaliq, and **E. M. Elsayed**, Dynamics and Behaviour of Some Rational Systems of Difference Equations, *Journal of Computational and Theoretical Nanoscience*, 13 (11) (2016), 8583–8599.
- 115- Abdul Khaliq, Faris Alzahrani, and **E. M. Elsayed**, Global attractivity of a rational difference equation of order ten, *The Journal of Nonlinear Science and Applications (JNSA)*, 9 (6) (2016), 4465-4477.
- 116- **E. M. Elsayed**, On a max type recursive sequence of order three , *Miskolc Mathematical Notes*, 17 (2) (2016), 837–859.
- 117- **E. M. Elsayed**, Expression and behavior of the solutions of some rational recursive sequences, *Mathematical Methods in The Applied Sciences*, 39 (18) (2016), 5682–5694.
- 118- **E. M. Elsayed**, Abdullah Alotaibi, and Hajar A. Almaylabi, The Behavior and Closed Form of the Solutions of Some Difference Equations, *Journal of Computational and Theoretical Nanoscience*, 13 (11) (2016), 8642–8651.
- 119- M. M. El-Dessoky, **E. M. Elsayed**, and E. O. Alzahrani, The form of solutions and periodic nature for some rational difference equations systems, *The Journal of Nonlinear Science and Applications (JNSA)*, 9 (10) (2016), 5629–5647.
- 120- **E. M. Elsayed**, and Abdul Khaliq, Global Attractivity and Periodicity Behavior of a Recursive Sequence, *Journal of Computational Analysis and Applications*, 22 (2) (2017), 369-379.
- 121- S. Stevic, M. A. Alghamdi, A. Alotaibi, **E. M. Elsayed**, On a Class of Solvable Higher–Order Difference Equations, *Filomat*, 31 (2) (2017), 461–477.
- 122- **E. M. Elsayed**, A. Alotaibi, and Hajar A. Almaylabi, On a solutions of fourth order rational systems of difference Equations, *Journal of Computational Analysis and Applications*, 22 (7) (2017), 1298-1308.

- 123-E. M. Elsayed**, On the solutions and periodicity of some rational systems of difference equations, *Bulletin Mathématique de la Société des Sciences Mathématiques de Roumanie*, Tome 60 (108) (2) (2017), 159–171.
- 124-E. M. Elsayed**, F. Alzahrani, and H. S. Alayachi, Expressions of solutions of some systems of difference equations, *Malaya Journal of Matematik*, 5 (3) (2017), 592-607.
- 125-E. M. Elsayed**, M. Ghazel, and A. E. Matouk, Dynamical Analysis Of The Rational Difference Equation $x_{n+1}=Cx_{n-3}/(A+Bx_{n-1} x_{n-3})$, *Journal of Computational Analysis and Applications*, 23 (3) (2017), 496-507.
- 126- Abdul Khaliq and E. M. Elsayed**, Global Behaviour and Periodicities of Some Fractional Recursive Sequences, *Proceedings of the Jangjeon Mathematical Society*, 20 (3) (2017), 421 – 441.
- 127- E. M. Elsayed**, F. Alzahrani, and H. S. Alayachi, Global Attractivity and the Periodic Nature of Third Order Rational Difference Equation, *Journal of Computational Analysis and Applications*, 23 (7) (2017), 1230-1241.
- 128-Nabila Haddad, Nouressadat Touafek and Elsayed Mohamed Elsayed**, A note on a system of difference equations, *Analele Stiintifice ale universitatii al i cuza din iasi serie noua matematica*, LXIII (3) (2017), 599-606.
- 129- E. M. Elsayed**, F. Alzahrani, and H. S. Alayachi, Global Attractivity and the Periodic Nature of Third Order Rational Difference Equation, *Journal of Computational Analysis and Applications*, 23 (7) (2017), 1230-1241.
- 130- D. Vivek, K. Kanagarajan and E. M. Elsayed**, Some Existence and Stability Results for Hilfer-fractional Implicit Differential Equations with Nonlocal Conditions, *Mediterranean Journal of Mathematics*, 15 : 15 (2018), 1- 21.

131- A. Asiri, M. M. El-Dessoky and **E. M. Elsayed**, Solution of a third order fractional system of difference equations, Journal of Computational Analysis and Applications, 24 (3) (2018), 444-453.

132-S. Harikrishnan , K. Kanagarajan and **E. M. Elsayed**, Existence and stability results for langevin equations with Hilfer fractional derivative, Results in fixed point theory and applications, Volume 2018 (2018), Article ID20183, 10 pages.

133-**E. M. Elsayed**, F. Alzahrani, and H. S. Alayachi, Formulas and properties of some class of nonlinear difference equations, Journal of Computational Analysis and Applications, 24 (8) (2018), 1517-1531.

Books

1- **Elsayed M. Elsayed**, Hamdy A. El-Metwally, **Qualitative and Analytical Studies of Scalars and Systems of Difference Equations**, LAP LAMBERT Academic Publishing , (2012).

Conferences:

Attended these conferences:-

1) Dynamical Systems, Faculty of Science, Alexandria University, Alexandria, 11 May - 2006.

- 2) 9th International Conference on Chemistry and its Role in Development, Mansoura – Sharm El-Sheikh, EGYPT, April 16-19, 2007.
- 3) Dynamical Systems, Faculty of Science, Assiut University, Assiut, EGYPT, 16 April - 2007.
- 4) School on Algebraic Approach to Differential Equations, Bibliotheca Alexandrina, Alexandria, Egypt, 12 - 24 November 2007.
- 5) Space Technology and its Role in Comprehensive Development, Faculty of Science, Mansoura University, Mansoura, EGYPT, 4 - March - 2008.
- 6) Mathematical Analysis and its Applications, Department of Mathematics, Faculty of Science, Cairo University, EGYPT, Thursday, April 17, 2008.
- 7) Mathematics in Biological Sciences, Germany University in Cairo, Cairo, EGYPT, Thursday, May 21, 2009.
- 8) Developing in Teaching Mathematics at the University Stage According to the International Criteria of Quality, Faculty of Science, Cairo University, EGYPT, Wednesday, June 10, 2009.
- 9) Numerical Methods for Linear and Nonlinear Systems, Department of Mathematics, Faculty of Science, Cairo University, EGYPT, Thursday, June 25, 2009.

Papers presented in Conferences:-

- 1- E. M. Elabbasy, H. El-Metwally, and **E. M. Elsayed**, On the Periodic Nature of some Max-type Difference Equations, International Conference on Delay Differential and Difference Equations with Applications, August 25-29, 2003, Veszprém, Hungary.
- 2- E. M. Elabbasy, H. El-Metwally, and **E. M. Elsayed**, Periodicity Character of Solutions of some Difference Equations, 4th International Engineering Conference, April 20-22, 2004, Mansoura, EGYPT.
- 3- E. M. Elabbasy, H. El-Metwally, and **E. M. Elsayed**, On the Difference Equation
$$x_{n+1} = \frac{\alpha x_{n-k}}{\beta + \gamma \prod_{i=0}^k x_{n-i}}$$
, Dynamical Systems, May 11, 2006, Alexandria, EGYPT.
- 4- E. M. Elabbasy, H. El-Metwally, and **E. M. Elsayed**, Qualitative Behavior of Higher Order Difference Equation, 9th International Conference on Chemistry and its Role in Development, April 16-19, 2007, Mansoura – Sharm El-Sheikh, EGYPT.
- 5- E. M. Elabbasy, H. El-Metwally, and **E. M. Elsayed**, On the Difference Equation
$$x_{n+1} = (a_0 x_n + a_1 x_{n-1} + \dots + a_k x_{n-k}) / (b_0 x_n + b_1 x_{n-1} + \dots + b_k x_{n-k})$$
, Dynamical Systems, April 26, 2007, Assiut, EGYPT.

- 6- E. M. Elabbasy, H. El-Metwally, and **E. M. Elsayed**, Qualitative Behavior of Higher Order Difference Equation, Mathematical Analysis and Applications, April 17, 2008, Department of Mathematics, Faculty of Science, Cairo University, EGYPT.
- 7- E. M. Elabbasy, **H. EI-Metwally**, and **E. M. Elsayed**, Qualitative Behavior of some Max-type Difference Equations, Third Saudi Science Conference " New Horizons in Science and Their Applications ", College of Science, King Saud University, Riyadh, 11451 Kingdom of Saudi Arabia, 10th - 13th March, 2007.
- 8- **Bratislav Iricanin**, **E. M. Elsayed**, Recent Developments in Some "Unusual" Difference Equations Periodicity, MASSEE International Congress on Mathematics (MICOM 2009) , 16 – 20 September, 2009, Ohrid, Republic of Macedonia.

Prizes and Awards:

- ✓ The prize of the best Ph. D. granted at Mansoura University, in the year (2006 – 2007).

Extra qualifications and private skills:

1. I'm reviewer in the **Mathematical Reviews (MR)** <http://www.ams.org/mr-database>, which belongs to the *American Mathematical Society*.

2. I'm Editorial Board of the journal " **International Journal of Statistics and Mathematics (IJSM, ISSN: 2375-0499)** ". See the website <https://premierpublishers.org/ijsm/editorial-board>
3. I'm Editorial Board of the journal " **Journal of Physics and Astronomy Research (JPAR, ISSN: 2375-0499)** ". See the website <https://premierpublishers.org/jpar/editorial-board>
4. I'm Editorial Board of the journal " **International Research Journal of Telecommunications and Information Technology (IRJTIT, ISSN: 2375-0499)** ". See the website <https://premierpublishers.org/irjtite/editorial-board>
5. I'm Editorial Board of the journal " **Journal of Computer Science and Security (JCSS, ISSN: 2375-0499)** ". See the website <https://premierpublishers.org/jcss/editorial-board>
6. I'm Editorial Board of the journal " **Cogent Mathematics (ISSN: 2331-1835)** ".
7. I'm Editorial Board of the journal " **SCIREA Journal of Mathematics**". See the website <http://www.scirea.org/journal/EditorialBoard?JournalID=11000#2066>
8. I'm Editorial Board of the journal " **International Journal of Applied Mathematics and Theoretical Physics** ". See the website <http://www.sciencepublishinggroup.com/journal/editorialboard?journalid=322>

9. I'm Editorial Board of the journal " **SCIREA Journal of Mechanics** ". *See the website*

<http://www.scirea.org/journal/EditorialBoard?JournalID=13000#2066>

10. I'm Editorial Board of the journal " **JOURNAL OF ADVANCES IN MATHEMATICS** ". *See the website*

<https://cirworld.com/index.php/jam/about/editorialTeam>

11. I'm also a referee for many highly reputable journals such that:-

1. Indian Journal of Mathematics.
2. Fasciculi Mathematici.
3. Journal of Applied Mathematics and Computing.
4. Applied Mathematics and Computation.
5. 7th Asian Control Conference to be held in Hong Kong Convention and Exhibition Center, Hong Kong during August 27-29, 2009.
6. Thai Journal of Mathematics.
7. Journal of Pure and Applied Mathematics: Advances and Applications.
8. Journal of Computational and Applied Mathematics.
9. Computers and Mathematics with Applications.
10. Ars Combinatoria.
11. Discrete Dynamics in Nature and Society.

12. Applied Mathematics Letters.
13. Abstract and Applied Analysis .
14. Acta Mathematica Scientia.
15. Mathematical and Computer Modelling.
16. Utilitas Mathematica.
17. Mathematical Problems in Engineering.
18. Hacettepe Journal of Mathematics and Statistics.
19. World Applied Sciences Journal.
20. Advances in Pure Mathematics (APM).
21. International Journal of Automation and Control.
22. Dynamics of Continuous, Discrete and Impulsive Systems (DCDIS) Series A: Mathematical Analysis.
23. Mathematica Slovaca.
24. Advances in Difference Equations.
25. Arab Journal of Mathematical Sciences.
26. Chinese Annals of Mathematics.
27. International Journal of Nonlinear Science (IJNS).
28. International Conference of Numerical Analysis and Applied Mathematics 2011.
29. Fixed Point Theory and Applications.
30. The 2012 International Conference on Computer and Management (CAMAN 2012) will be held on March 9-11, 2012 in Wuhan, China.
31. IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY.
32. The 2012 Spring World Congress on Engineering and Technology (SCET 2012) will be held on May 26–29, 2012 in Xian, China.

33. The 2012 International Conference on Internet Technology and Applications, (iTAP2012), will be held on August 18- 20, 2012 in Wuhan, China.
34. International Conference of Numerical Analysis and Applied Mathematics 2012, ICNAAM 2012, Kypriotis Hotels and Conference Center, Kos, Greece, 19-25 September 2012.
35. Bulletin of the Iranian Mathematical Society.
36. Sarajevo Journal of Mathematics.
37. The First International Conference on Analysis and Applied Mathematics (ICAAM) to be held in Gumushane, Turkey during October 18-21, 2012.
38. The Journal of Nonlinear Science and Applications.
39. International Journal of Biomathematics (IJB).
40. International Journal of Difference Equations (IJDE).
41. International Conference on Pure and Applied Mathematics (ICPAM 12), held at University of Guelma, Guelma, Algeria, during May 28-30, 2012.
42. Walailak Journal of Science and Technology (WJST).
43. Journal of Difference Equations and Applications.
44. Italian Journal of Pure and Applied Mathematics.
45. WSEAS Transaction on Mathematics.
46. International Journal of the Physical Sciences.
47. Neural Computing and Applications.
48. International Conference of Numerical Analysis and Applied Mathematics 2013, held at Rhodes, Greece, during September 21, 2013 – September 27, 2013, (ICNAAM 2013).
49. Applied Mathematics & Information Sciences.
50. Mathematical Sciences Letter.
51. Mathematical Methods in the Applied Sciences.

52. International Conference of Numerical Analysis and Applied Mathematics 2013, ICNAAM 2013, 21–27 September 2013, Rodos Palace Hotel, Rhodes, Greece.
53. Mathematical Sciences.
54. British Journal of Mathematics & Computer Science.
55. Journal of Inequalities and Applications.
56. Nonlinear Dynamics.
57. Journal of the Egyptian Mathematical Society.
58. Current Advances in Mathematics.
59. Annual Review & Research in Biology.
60. Computational and Mathematical Methods in Medicine.
61. Physical Review & Research International.
62. Journal of Applied Mathematics and Informatics.
63. Advancement in Scientific and Engineering Research.
64. Journal of Applied Mathematics.
65. Mathematical Sciences Letters.
66. General Mathematics Notes (GMN).
67. Journal of Mathematical Research and Applications (JMRA).
68. QScience Connect.
69. Journal of Nonlinear Functional Analysis.
70. Southeast Asian Bulletin of Mathematics.
71. NOVI SAD JOURNAL OF MATHEMATICS.
72. The Scientific World Journal.
73. Physica A: Statistical Mechanics and its Applications.

74. Journal of Educational Research and Reviews.
75. Filomat.
76. Statistical Papers.
77. International Journal of Statistics and Mathematics.
78. Electronic Journal of Mathematical Analysis and Applications (EJMAA).
79. Scientific Research and Essays.
80. Scientific Journal of Mathematics Research.
81. King Abdulaziz City for Science and Technology (KACST).
82. Journal of Difference Equations.
83. Journal of the Franklin Institute.
84. Journal of Partial Differential Equations.
85. Asian Journal of Mathematics and Computer Research.
86. Electrical Engineering.
87. Complexity.
88. International Journal of Dynamics and Control.
89. Malaya Journal of Matematik.
90. Indagationes Mathematicae.
91. Kybernetes.
92. Physica Scripta.
93. Nonlinear Analysis: Modelling and Control.
94. SpringerPlus.
95. Information Processing Letters.
96. Journal of Software Engineering and Applications.

97. Quaestiones Mathematicae.
98. Chaos, Solitons & Fractals.
99. Mathematics.
100. Journal of Applied Mathematics and Physics (JAMP).
101. Journal of Fractional Calculus and Applications (JFCA).
102. Kyungpook Mathematical Journal.
103. Experimental Techniques.
104. Journal of Interpolation and Approximation in Scientific Computing.
105. Optik - International Journal for Light and Electron Optics.
106. Applied Mathematics.
107. International Journal of Computing Science and Mathematics.
108. Creative Mathematics and Informatics.
109. International Research Journal of Curriculum and Pedagogy.
110. Journal of Mathematics and Computer Science.
111. Ain Shams Engineering Journal.
112. Miskolc Mathematical Notes.
113. International Journal of Statistics and Mathematics.
114. International Journal of Dynamical Systems and Differential Equations (IJDSDE).
115. Cogent Mathematics.
116. Far East Journal of Applied Mathematics.
117. Journal of Nonlinear Analysis and Application.
118. Applications and Applied Mathematics: An International Journal (AAM).
119. Results in Physics.

120. European Journal of Pure and Applied Mathematics.
121. Rocky Mountain Journal of Mathematics.
122. Hittite Journal of Science & Engineering.
123. Journal of Inequalities and Special Functions.
124. International Journal of Advanced and Applied Sciences.
125. General Letters in Mathematics.
126. Advances in Differential Equations and Control Processes.
127. International Journal of ADVANCED AND APPLIED SCIENCES (IJAAS).
128. Pure and Applied Mathematics Quarterly.
129. Open Access Journal of Mathematical and Theoretical Physics.
130. The Journal of the Korean Society for Industrial and Applied Mathematics.
131. Qualitative Theory of Dynamical Systems.
132. MathLAB.
133. Research and Reports on Mathematics.
134. Journal of Mathematical Analysis and Applications.
135. Journal of Physics and Astronomy Research.