CURRICULIUM VITAE

Name:

Dr. Mansour E. Ahmed

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Date of Birth: March 12, 1978, Dakahlia, Egypt.

Current Position: Lecturer, Department of Mathematics, Faculty of Science, Assiut University, Assiut 71516, Egypt.

Citizenship: Egyptian.

Martial Status: Married.

Specialization: Pure Mathematics (Dynamical Systems)

Education and Professional Experience:

- o 1999: B. Sc. Degree in Mathematics, Faculty of Science, Assiut University, Egypt.
- o From: January 2000, I have been working as Demonstrator in the Department of Mathematics, Faculty of Science, Assiut University, Assiut, Egypt.
- o 2002: Pre-Master, courses in Pure Mathematics and Applied Mathematics (Assiut University)
- o 2006: M. Sc. degree in Mathematics (Applied Mathematics – Quantum Mechanics), supervised by **Prof. Dr. Ismaiel A. Hassanien,** from Assiut University, Assiut, Egypt, the thesis entitled "**QUANTUM CHARACTERISTICS OF THE INTERACTION OF ELECTROMAGNETIC FIELD WITH ATOM**"

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- My M. Sc has been published as a book " **Some Statistical Properties of Quantum Optics** " (ISBN 978-3-8454-0699-2) in LAP LAMBERT Academic Publishing.
- From: September 2006, I have been working as Assistant Lecturer in the Department of Mathematics, Faculty of Science, Assiut University, Assiut, Egypt.
- 2011: Ph. D degree in Mathematics (Pure Mathematics – Dynamical Systems), supervised by **Prof. Dr.   Gamal M. Mahmoud,** from Assiut University, Assiut, Egypt, the thesis entitled " **Analysis of Complex Nonlinear Dynamical Systems. "**
- My Ph. D has been published as a book "**Analysis of Complex Nonlinear Dynamical Systems**" (ISBN 978-3-8465-0273-0) in LAP LAMBERT Academic Publishing.
- From: June 2011, I have been working as a Lecturer in the Department of Mathematics, Faculty of Science, Assiut University, Assiut, Egypt**.**
- From: June 2013 - June 2021, I have been working as Assistant Professor in the Department of Mathematics, Faculty of University College in Gamoum, Umm Al-Qura University, Makkah 21955, Saudi Arabia.

Teaching Experience:

I have an experience in teaching undergraduate courses in Ordinary Differential Equations, Partial Differential Equations, Calculus 1, 2, Mathematical Methods, Linear Algebra 1, 2, Quantum Mechanics, Number Theory, Real analysis 1, 2, Complex Analysis, Numerical Analysis, Discrete Mathematics, Statistics and Probability, Differential Geometry, Differentiation and Integration in many Variables, Functional Analysis, Applied Mathematics 1, 2, Fluid Mechanics, and Dynamical Systems in faculty of science, Assiut University, Egypt, and Faculty of University College in Gamoum, Umm Al-Qura University, Saudi Arabia.

Conferences Participation:

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1. Egyptian Mathematics Society with Department of Mathematics, Assiut, February 2002.
2. Egyptian Mathematics Society with Department of Mathematics, Assiut, February 2003.
3. Egyptian Mathematics Society with Department of Mathematics, Assiut, February 2004.
4. Egyptian Mathematics Society with Department of Mathematics, Assiut, February 2005.
5. The International Conference on Mathematical Analysis and Its Applications (ICMAA06) Assiut, Egypt – January 2006.
6. The One Day Conference organized by the Egyptian Mathematical Society, Dynamical Systems, April 26, 2007, Department of Math., Faculty of Science, Assiut University. Assiut, Egypt.
7. The Third Annual Conference for Young Scientists Basic Science and Technology, Assiut, Egypt,19-20 April 2011.
8. The 2nd International Conference on Mathematics and Information Science (ICMIS2011) Sep. 10-13, 2011, Sohag, Egypt.

List of Publications:

1. Gamal M. Mahmoud, Emad E. Mahmoud and Mansour E. Ahmed, **A Hyperchaotic Complex Chen System and Its Dynamics**, *Int. J. Appl. Math. Stat.* 12, 90-100 (2007).

2. Gamal M. Mahmoud, Mansour E. Ahmed and Emad E. Mahmoud, **Analysis of Hyperchaotic Complex Lorenz Systems**, *International Journal of Modern Physics C 19: 1477–1494 (2008).*

3. Gamal M. Mahmoud Emad E. Mahmoud, and Mansour E. Ahmed, **On the Hyperchaotic Complex Lü System**, *Nonlinear Dynamics* 58, 725-738 (2009).

4. Gamal M. Mahmoud and Mansour E. Ahmed, **Modified Projective Synchronization and Control of Complex Chen and Lü Systems**, *Journal of Vibration and Control* 17 (8), 1184 -1194 (2011).

5. Gamal M. Mahmoud, Mansour E. Ahmed, and Nabil Sabor, **On Autonomous and Non-Autonomous Modified Hyperchaotic Complex Lü Systems**, *Int. J. of Bifurcation and Chaos*, 21 (7), 1913 -1926 (2011).

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6. Gamal M. Mahmoud and Mansour E. Ahmed, **A hyperchaotic complex system generating two-, three-, and four-scroll attractors**, *Journal of Vibration and Control* 18 (6), 841 - 849 (2012).

7. Gamal M. Mahmoud and Mansour E. Ahmed, Chaotic and hyperchaotic complex jerk equations, ***International Journal of Modern Nonlinear Theory and Application, 1, 6-13*** (2012).

8. **My M. Sc has been published as a book " Some Statistical Properties of Quantum Optics " (ISBN   978-3-8454-0699-2) in LAP LAMBERT Academic Publishing.**

9. My Ph. D has been published as a book "**Analysis of Complex Nonlinear Dynamical Systems**" (ISBN   978-3-8465-0273-0) in LAP LAMBERT Academic Publishing.

10. Gamal M. Mahmoud, Tarek M. Abed-Elhameed and Mansour E. Ahmed, **Generalization of combination – combination synchronization of chaotic n-dimensional fractional-order dynamical systems,** *Nonlinear Dynamics*, 83, 1885-1893 (2016) DOI 10.1007/s11071-015-2453-y

11. Gamal M. Mahmoud, Mansour E. Ahmed, and Tarek M. Abed-Elhameed, **On fractional-order hyper chaotic complex systems and their generalized function projective combination synchronization** *Optik - International Journal for Light and Electron Optics, 130, 398-406 (2017).*

12. Gamal M. Mahmoud, Mansour E. Ahmed, and Tarek M. Abed-Elhameed, **Active control technique of fractional-order chaotic complex systems,** *Eur. Phys. J. Plus, 131, (200), 1-11(2016).*

13. Gamal M. Mahmoud, and Mansour E. Ahmed, **Analysis of chaotic and hyperchaotic conservative complex nonlinear systems, Miskolc Mathematical Notes***, 18, (1), 315-326 (2017).*

14. Tarek M. Abed-Elhameed, Gamal M. Mahmoud, and Mansour E. Ahmed, **On real and complex dynamical models with hidden attractors and their synchronization,** *Physica Scripta, 98 (4), 045223 (2023).*

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15. *Tarek M. Abed-Elhameed, Gamal M. Mahmoud, Motaz M. Elbadry and Mansour E. Ahmed,* **Nonlinear distributed-order models: Adaptive synchronization, image encryption and circuit implementation,** Chaos, Solitons and Fractals, 175 (2023) 114039**.**

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