

Contact Info:

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Biographical sketch

(Academic Degrees- Fellowships and Associations)

- **Ph. D. in Engineering Mathematics**

Title : " Sensitivity Analysis and Synchronization of Chaotic Dynamical Systems and Applications"

Department of Engineering Mathematics and Physics, Faculty of Engineering, Alexandria University, Egypt, 2005.

Area of Specialization: Probability and Stochastic Processes

Courses: Perturbations and Asymptotic Methods, Ergodic Theory, Partial Differential Equations

- M. Sc. in Engineering Mathematics

Title: "Normal forms of nonlinear vector fields and applications" Department of Engineering Mathematics and Physics, Faculty of Engineering, Alexandria University, Alexandria (21544) Egypt, 1998.

Area of Specialization: Nonlinear Systems

Courses: Advanced Linear Algebra, Ordinary Differential Equations, Integral Equations, Topology and Graph Theory, Differentiable Dynamics, Advanced Topics in Engineering Mathematics.

-Diploma in Engineering Mathematics (1994)

Department of Engineering Mathematics and Physics, Faculty of Engineering, Alexandria University, Egypt, 1994.

Courses: Real Analysis, Probability and Statistics, Functional Analysis, Fluid Mechanics, Differential Geometry, Algebra and Topology

- B. Sc., in "Electrical Engineering", Very Good with Honor, Air Defense College, Alexandria, Egypt, 1991.

publications

- [1] Abdel-Karim Aboul-Hassan, A. A. Nasser and **Abdel-Azim Mohamed**, "Closed Form Solutions of a Class of Nonlinear Circuits Using Normal Forms," Proceedings of the first ICEENG Conf. , 24-26 , March, 1998, pp. CS 2-8 : CS 2-17, Military Technical College, Cairo, Egypt.
- [2] Abdel-Karim Aboul-Hassan, A. A. Nasser and **Abdel-Azim Mohamed**., "Detecting the Largest Lyapunov Exponent in Nonlinear Systems Using Normal Forms", Proceeding of the 3rd International Conf. on Electrical Eng., Cairo, Egypt, pp.216-224, May, 2002.
- [3] Abdel-Karim Aboul-Hassan, A. A. Nasser and **Abdel-Azim Mohamed**, "Combining Numerical and Normal Form Methods in the Investigation of Qualitative Behavior of Nonlinear Circuits and Systems", Proceeding of the 3rd International Conf. on Mathematics, Dec, 2002, Cairo, Egypt.

	<p>[4] Abdel-Karim Aboul-Hassan, A. A. Nasser and Abdel-Azim Mohamed, “A New Method for the Control and Synchronization of Simple Chaotic Systems with Only one Nonlinear Term of one Variable”, proceeding of 11th International Conf. on Aerospace Sciences & Aviation Technology, May, 2005, Cairo, Egypt.</p> <p>[5] Abdel-Karim Aboul-Hassan, A. A. Nasser and Abdel-Azim Mohamed, “Sensitivity Analysis of Chaotic Systems”, Proceeding of the 5rd International Conf. on Mathematics, Dec, 2005, Asyout, Egypt.</p>
<p>Academic Research interests:</p>	<p>Chaotic Dynamical Systems</p>