

Magdy A. El-Tawil

Engineering Mathematics and Physics
Department

Faculty of Engineering, Cairo University

1. B.Sc. Communications, Cairo Univ., 1978
2. B.Sc. Mathematics, Ain Shams Univ., 1981
3. M.Sc. Eng. Math., Cairo Univ., 1984
4. Ph.D. Eng. Math., Cairo Univ., 1989
5. Professor of Math. since 1999.



د.د. مجدی کپوئل
رسم، فاطمته مجدی کپوئل
۲۰۲۰/۱/۱

Brief CV

1. **Editor in chief** “ Egyptian Chinese J. of Computational and Applied Mathematics **ECJCAM**”.
2. **Editor** in many local and international journals
3. **Referee** in many local and international journals (130 case(90% international)).
4. **Copresident** of Committee (48) for promotion
5. **Senior** of Mathematics in the department

Brief CV (cont.)

6. **Publications:** 110 (75% international), **h=9**

7. **Conferences:**

- Many local conferences including international conferences in Egypt.
- ICNAAM-2008, **Greece-Kos**, 16-20 Sept., 2008(presentation)
Chairman of a session: Computation of stochastic systems.
- Mathematical models in medicine, business and engineering-**2009**
Spain-Valencia, 8-11 Sept., 2009(presentation)
Invited talker: Stochastic Systems, Applications Point of View.

Brief CV (cont.)

- Mathematical models in medicine, business and engineering-2010
Spain-Valencia, 8-10 Sept., 2010(presentation)
Invited talker: Stochastic Systems, WHEP applications
- ICASP11, ETHZ, **Switzerland-Zurich** (Aug. 1-4).
(presentation of a Talk) **2011**.
- ccs2012, **Turkey-Antalya**, (April 29-May 2).
(presentation of a Talk) **2012**.
- Association of African Universities (AAU): Specialized Leadership
Development Conference, **South Africa-Cape Town** 14-16 June,
2012

2011 Publications

- Magdy A. El-Tawil, The Use of Homotopy WHEP Algorithm for Solving Stochastic Differential Equations, ICASP 11, 11th International Conference on Applications of Statistics and Probability in Civil Engineering, August 1-4, 2011, ETH Zurich, Switzerland, pp. 819-
- Hany N. Hassan and Magdy A. El-Tawil, A new technique of using homotopy analysis method for solving high-order nonlinear differential equations, *Mathematical Methods in the Applied Sciences*, vol. 34, no. 6, pp. 728–742, 2011
- Hany N. Hassan and Magdy A. El-Tawil, An efficient analytic approach for solving two-point nonlinear boundary value problems by homotopy analysis method, *Mathematical Methods in the Applied Sciences*, vol. 34, no. 8, pp. 977–989, 2011
- Hany N. Hassan and Magdy A. El-Tawil, Solving cubic and coupled nonlinear Schrödinger equations using the homotopy analysis method, *Intern. J. of Applied Math. And Mech.*, 7(8): 41 - 64, 2011.
- Hany N. Hassan and Magdy A. El-Tawil, MODIFIED HOMOTOPY ANALYSIS METHOD FOR SECOND ORDER NONLINEAR INITIAL VALUE PROBLEMS, *Int. J. of Appl. Math and Mech.* 7 (18): 82-108, 2011.

2011 Publications(cont.)

- Magdy A. El-Tawil and M. Abdelrahman, Mean square numerical methods for initial value random differential equations, Open Journal of Discrete Mathematics OJDM (2011) 1(2), 66-84. •
- Magdy A. El-Tawil and A. Fareed, Solution of Stochastic Quintic Nonlinear Diffusion Equation Using Picard and HPM methods, Open Journal of Discrete Mathematics OJDM (2011) 1(1), 6-21. •
- Magdy A. El-Tawil and A. Shekheiby , Statistical study of the stochastic solution processes of stochastic Navier-Stokes equations using Homotopy-WHEP technique, Journal of Computer Science & Computational Mathematics, 1(4), 19-30, 2011.
- Magdy A. El-Tawil and A. Shaheed, The q-Homotopy Analysis Method (q- HAM), accepted, Int. J. of Appl. Math and Mech. 8 (15): 51-75, 2012. •

Supervision of theses and dissertations

M.Sc.

Finished: 6, Waiting: 3

Ph.D.

Finished: 11, Waiting: 8

Best Ph.D. in Cairo University: Tamer Abassy (2009)

Best Ph.D. in Cairo University: Hany Nasr (2011)

Rewards

- Encouraging award in the fundamental and applied sciences, 2001.

- جائزة جامعة القاهرة التشجيعية في العلوم الأساسية و التطبيقية في المواد الجديدة و الذكية

- Distinguished award in fundamental sciences, 2011.

- جائزة التفوق جامعة القاهرة في العلوم الأساسية

Social

- Married
- 5 daughters: 3 married, graduated and general secondary.
- 10 years in Saudi-Arabia (loaned)
- Mild health
- Hopyy : Sport (intellectual), Arts (Writing)
- I prefer scientific activities rather than the social ones.





















