# **Curriculum Vitae**

# **Prof. Dr. Taha Morsy Aly El-Gindy**

# **Biography**

- Prof. Dr. Taha Morsy Aly El-Gindy
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- Position: Professor of Mathematics (Optimal Control)
- Date of Birth: 11-6-1942
- Place of Birth: Mallawi/ElMinia, Egypt
- Sex: Male

# **Education:**

- Bachelor of Science (BSC) from the Faculty of Science, University of Assiut Excellent June 1965.
- Master of Science (MSC) "Mathematics", Faculty of Science, Assiut University, March 1971.
- PhD in Science "Mathematics" University of Wales, UK, 1977.

#### Jobs:

- Demonstrator, Math. Dept., Faculty of Science, Assiut University, November 1965.
- Assistant Lecturer, Math. Dept., Faculty of Science, Assiut University, February 1972.
- Assistant Professor, Math. Dept., Faculty of Science, Assiut University, January 1978.
- Associate Professor, Math. Dept., Faculty of Science, Assiut University, November 1984.
- Professor, Math. Dept., Faculty of Science, Assiut University, June 1995.

#### **Secondment**

- Umm Al-Qura University-Taif- from 08/18/1985 until 08/31/1990.
- Umm Al-Qura University-Taif- from 29/07/1995 until 08/31/2000.

# **Professional experiences:**

- Supervised 21 Master degrees and 6 Doctoral degrees.
- Chairman of the Computer committee, Department of Mathematics until 18/8/1985.
- Member of the Board Directors of Scientific Computer Center, Assiut University until 18/8/1985.
- Representative of Mathematics Department at the scientific equipments committee until 18/8/1985.
- Head of the Department of Mathematics at the Umm al-Qura University, Taif from 1984 1985.

# List of Publications

- 1. A Numerical Method for the Determination of Optimal Surface Temperatures of Steel Ingots: International Journal for Numerical Methods in Engineering, U.K, Vol..14 227-233 (1979).
- A Numerical Method for the Design of Linear Time-Invariant Control System. Cairo University Institute of Statistical Studies& Research, The 15<sup>Th</sup> Annual Conference on Statistical, Computer Science Operation Research &Mathematics (1980), Volume 15,No 5
- 3. Acceleration of the Partial Quadratic Interpolation Method, Bulletin of the Faculty of Science, Volume 11Number 1 (1982)
- 4. The Pontryagin's Maximum Principle in the Optimal Control Problems, Bulletin of the Faculty of Science, Volume 11Number 2 (1982).
- 5. The Optimal Control Problem with Constraints on the Control Variables, Bulletin of the Faculty of Science, Volume 11Number 1 (1982).
- 6. On the Numerical Solution of the Riccati Algebraic Matrix Equation, Communication In Applied Numerical Method, Volume2 (1986) U.K.
- 7. Numerical Solution of Optimal Control Problems with Non-Deferential Constraints and General Boundary Conditions, Jour, Inst, Math & Comp,Sc. Vol-1,No 1(1990), 17-24.
- 8. Penalty Function with Partial Quadratic Interpolation Technique in the Constrained Optimization Problems- Journal of Institute of Math. &Computer, Sci. Vol. 3 No 1, 1990.
- 9. Penalty Function with Partial Quadratic Interpolation Technique in the Constrained Optimization Problems, Jour, Inst, Math & Comp, Sc. Vol-1,No 1(1990), 85-90.
- 10. A Hybrid Method in the Unconstrained and Constrained Optimization Problems, Journal of Inst.Math.&Comp.Sci.,Vol.3.No 2 (1990) India
- 11. Iterative Solution of The Riccati Matrix Equation, Jour, Inst, Math &Comp,Sc.Vol-3, No3 (1990).
- 12. A Constrained Optimization Technique for the Riccati Matrix Equation, ASME, vol, 39 No2 France
- The Optimal Choice of the θ-Parameter in the Three-Level Time Schemes, Journal J. Computer Math, Vol. 40, pp.221-229, 1991-UK
- 14. The Computational Approach for Optimal Control Problems of Parabolic Systems, Egyptian Mathematical Society Vol. 3(1992).
- 15. Optimization Technique for Singularly Perturbed Ordinary Differential Equations, Intern. J. Computer Math, (1993) USA.
- 16. Optimization Technique for Some Partial Differential Equations, Intern. J. Computer Math, (1993) USA.
- 17. An Optimization Technique for Falkner-Skan Equation, Journal of mathematical Programming and operation research, OPA Berlin, Germany (1994).
- 18. A Chebyshev Approximation for Solving Optimal Control Problems, Journal of computers& Mathematics with. Application. Vol. 29,No. 6, pp.35-45 1995 USA.

- 19. Interactive Decomposition Bounded Domain Algorithm for Treating Multi-Objective Fractional Linear Programming, Fifth International Science Conference (F.I.S.C) Al-Azhar University ,Cairo, Egypt (2003)
- 20. Image Similarity Using Skelton end Points and Geometric Hashing, ICCTA 2008, Alexandria, Egypt.
- 21. Shape-Based Image Retrieval by Linear Matching, 5<sup>th</sup> International Engineering Conference, Cairo University, (2009).
- 22. A New filled function method applied to unconstrained global Optimization, Journal of Mathematics and System Science (ISSN 2159–5291, (USA).
- 23. A Modified Partial Quadratic Interpolation Method for Unconstrained Optimization, Journal of Concrete and Applicable Mathematics- JCAAM, 11(1): 136–146, 2013.