Curriculum Vitae

Dr. Adel Abou El- Magd Sewisy Mohamed

Professor, Dept. of Computer Science

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Positions:

- **Professor, Dept. of Computer Science, Faculty of Computer and Information Sciences, Assiut University.**
- **Vice Dean of Faculty of Computer and Information Sciences, Assiut University.**

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Date & Place of Birth: *01/02/1962* – Samalout, El-Minia.

Academic Qualifications:

1. B.Sc. in Mathematics with a general grade of "Very Good with Honor's Degree, June 1984, Faculty of Science, Assiut University.
2. M.Sc. in Mathematics, April 1990, Faculty of Science, Assiut University.
3. Ph.D. in Computer Science, June 1997, Faculty of Science, Assiut University.

Experience:

1. Demonstrator in the Dept. of Mathematics, Faculty of Science, Assiut University, as of 27/11/1984.
2. Assistant lecturer in the Dept. of Mathematics, Faculty of Science, Assiut University, as of 30/06/1990.
3. Lecturer of computer science in the Dept. of Mathematics, Faculty of Science, Assiut University, as of 27/07/1997.
4. Associate professor of computer science in the Dept. of Mathematics, Faculty of Science, Assiut University, as of 30/03/2003.
5. Transferred to the Dept. of Computer Science, Faculty of Computer and Information Sciences as of 03/08/2003.
6. Head of Dept. of Information Systems, Faculty of Computer and Information Sciences, Assiut University, as of September 2005.
7. Professor, Dept. of Computer Science, Faculty of Computer and Information Sciences as of 30/04 /2008.
8- Head of Dept computer science 21/5/2008.
9 - Vice Dean of Faculty of Computer and Information Sciences, Assiut University as of 11/8/2008.

Scholarships:

Joint supervision scholarship in Austria to get the Ph.D. degree in computer science from 25/09/1994 till 01/11/1996.

Scientific Conferences:

1. The 1st Assiut International Conference on Mathematics and Statistics held in the Dept. of Mathematics, Faculty of Science, Assiut University, during the period from 12/12/1990 till 14/12/1990.
2. The Scholars Conference held in the Dept. of Physics, Faculty of Science, Am Shams University, Cairo, during the period from 02/04/1994 till 05/04/1994.
3. The 1st International Conference on Basic Sciences and Advanced Technology held at the Faculty of Science, Assiut University, during the period from 09/11/1996 till 12/11/1996.
4. The One-Day Conference on Numerical Analysis and its Applications in Environmental Service held in the Dept. of Mathematics, Faculty of Science, Assiut University, in 1996.
5. The Conference on Applying the Information and Computer Systems in the Maintenance and Repair of Scientific Devices held at the Scientific Research Academy, Cairo, on 15/03/1997.
6. The One-Day Conference on Numerical Analysis and Computer Sciences and their Applications held at the Faculty of Science, Assiut University, on 08/02/1998.
7. The 2000 Computer Crisis Management Conference held at The Information Network, Assiut University, during the period from 29/09/1998 till 30/09/1998.
8. The International Conference on Artificial Intelligence held in Cairo during the period from 03/02/2000 till 06/02/2000.
9. The 2nd International Conference on Basic Sciences and Advanced Technology held at the Faculty of Science, Assiut University, during the period from 05/11/2000 till 08/11/2000.
1 0.The International Conference on Artificial Intelligence held at the American University in Cairo during the period from 06/02/2002 till 09/02/2002.
11.The 1st International Conference on Artificial Intelligence held at Am Shams University, Cairo during the period from 24/06/2002 till 26/06/2002.
12.The 13th International Conference on Industry, Engineering and the Applications of Artificial Intelligence and Experience Systems held in U.S.A. during the period from 19/06/2002 till 22/06/2002.
13 .The International Conference on Information Systems and Intelligent Computers held at Am Shams University during the period from 24/06/2002 till 26/06/2002.

Other Activities:

1. Member of the Egyptian Computer Society.
2. Member of the International Society of Applied Intelligence.
3. Member of the Programming and Computer Unit, Assiut University.
4. Head of the Preparation and Documentation Committee of the University Youth Week, February 2003.
5. Supervising M.A. theses and Ph.D. dissertations in computer science.
6. Participation in teaching computer science courses to postgraduate students.
7. Supervising computer science seniors' essays and papers.
8. Supervising student computer labs of the department.
9. Maintenance of computer sets at Assiut University.
10. Participation in setting the specifications for computer sets at Assiut University.
11. Participation in examining computer sets at Assiut University.
12. Heading the out-of-repair computer committee.
13. Participation in setting the Faculty of Science Courses.
14. Participation in setting courses for the Faculty of Computer and Information Sciences, Assiut University.

Research Interests: Computer science, computer vision; artificial intelligence; image processing; pattern recognition; computer graphics; fuzzy logic; neural network; numerical analysis; algorithms on graphs; arithmetic algorithms; discrete optimization; geometric algorithms.

LIST OF PUBLICATIONS

*[1] **A. A. Sewisy** (2002) " Graphical Techniques fro Detection Lines with the Hough Transform" International Journal of Computer Mathematics.Vol. 79, (2002), 49-64

[2]   A. S. Farrag and **A. A. Sewisy** (2000) " Computer Construction and Enumeration of all Topologies and all Hyperconnected Topologies on Finite Sets" International Journal of Computer Mathematics Vol. 74, (471-482)

[3]   **A. A. Sewisy** and F. Leberl (2001) " Detection Ellipses by Finding Lines of Symmetry in the Images via a Hough Transform Applied to Straight Lines" Image – and Vision – Computing Journal (IVC)
Vol. 19, no. 12, 857-866

*[4] **A. A. Sewisy** (2000)" A Thinning Method for Coding Hand-Written and English Character" Egyptian Computer Science Journal Vol. 22, No. 2 (15-22)

[5]   A. M. Salem**, A A. Sewisy** and A. Usama (2000) " Neurocomputing Technique for Image Recognition and Classification" 8th International Conference on Soft Computing Brno, Czech, June 5-7,(227-233),

[6]   **A. A. Sewisy** and A. M. Fawaz (2002) " One Dimensional Accumulator Space for Detecting Lines with Hough Transform". 10th International Conference on Artificial Intelligence Applications Cairo Egypt February 6-9.

[7]   A. S. Farrag and **A. A. Sewisy** (1999) Computer Construction and Enumeration of all Topologies on Finite Sets" International Journal of Computer Mathematics Vol. 72, (433-440)

*[8] **A. A. Sewisy** (2000) " Detection of Circular Object with a High Speed Algorithm" 13th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert System USA June 19-22, 522-533.
 [9] G.S. Hassan , M.A. El-Hadad and A. A. Sewisy (2001) " On the Successive Disintegration of Radioactive Series" Arab Journal of Nuclear Physics and Applications, (1967-1976)

[10] A. Goneid, S. El- Gendie, **A.A. Sewisy** and M. Kouta (1997) "Detection of Lines, Circles and Ellipses in Images Using the Hough Transform, 5th International Conference on Artificial Intelligence Applications Cairo Egypt Feb. 27-3 March 1997.

[11] A. Goneid, S. El- Gendie, and **A.A. Sewisy** (1997) "A Method for the Hough Transform Detection of Circles and Ellipses Using a 1-Dimensional array, IEEE

International Conference on Systems and Cybernetic Computational Cybernetics and Simulation (Cat. No.97CH36088-8) IEEE, New Yourk NY, USA; 5 Vol.4 pp 3147-3154

*[12]   **A. A. Sewisy**, (2007) " Diagnosis of Hypertension based on the Applied Genetic Algorithm of Retinal Vascular Tree ", Bioinformatics and Medical Engineering (BIME), Journal Vol. 7, No. 1 PP:- 9-15.

*[13]   **A. A. Sewisy,** (2005),"Visualization in Non-Linear Program Using Parallel Coordinates", International Journal of Applied Mathematics Vol. 17 No. 3, pp. 271-285,

*[14]   **A. A. Sewisy**, (2004)" Parallel Coordinates a Tool for Visualizing N-Variable Linear Programming Problems", International Journal of Applied Mathematics, Vol. 16 No. 1, pp. 39-54.

*[15]   **A. A. Sewisy,** (2007), "Arabic License Plate Recognition Based on Hough Transform" International Journal on Artificial Intelligence and Machine Learning (AIML), Vol. 7, No. 1 , , pp. 1-7.

[16] A.bdel-Badeeh M. Salam, **A. A. Sewisy** and Usama A. Elyan, (2005) "A Vertex Chain Code Approach for Image Recognition", International Journal on Graphics, Vision and Image processing (GVIP), Vol. 5, No. 3, PP:- 1-8.

[17] **A. A. Sewisy** and Usama A. Elyan, (2006) "Genetic Algorithm for Circle/Ellipse Detection", International journal on Artificial Intelligence and Machine Learning (AIML), Vol. 2, No. 2, PP:- 63-69.

*[18] **A. A. Sewisy**,(2004) "Efficient Modification of Combinatorial Hough Transform for Line Detection", International Journal of Intelligent Computing and Information Science(IJICIS), Vol. 4 No. 2, PP:- 207- 225.

*[19] **A. A. Sewisy**,(2007) "A new Hough Transform Method for Ellipse Detection", The 5th International Conference on Informatics Systems March 24-26 Cairo Egypt., PP:- 202-207 .

[20] **A. A. Sewisy** Usama A. Elyan, (2007) "Circle Detection through a 3D Hough Transform and Fitness Value", The 5th International Conference on Informatics Systems March 24-26, Cairo Egypt, PP:- 218-223.

[21] M. R. Girgis , **A. A. Sewisy** and R. F. Mansour, (2007)" Verification of Partially Deformed Fingerprints Relying on Evolutionary Algorithms", International Journal on Graphics, Vision and Image processing, Vol. 7, No. 1, PP. 43-49.

[22] M. R. Girgis , **A. A. Sewisy** and R. F. Mansour, (2007)" Employing Generic Algorithms for precise Fingerprint Matching based on Line Extraction", International Journal on Graphics, Vision and Image processing, Vol. 7, No. 1, PP:- 51-59.

*[23] **A. A. Sewisy**, (2007), "Detection Lines in images by Curve Fitting using Hough Transform", International Review on Computers and Software (IRECOS). Vol. 2 No. 4 , PP:- 342 – 349.

 [24] A.bdel-Badeeh M. Salam**, A. A. Sewisy**, Mohamed R. EL-Saady and Amal A. Rashed, " A Study and Modification Gray-Scale Image Enhancement by Using Standard Deviasion", International Journal of Intelligent Computing and Information Science(IJICIS), ((under-publishing).