

CURRICULUM VITAE



PERSONAL DATA

Name:	Ahmed Moustafa Abd El-hamid Elmahalawy
Date of Birth:	13/1/1973
Place of Birth:	Egypt, Kalybia, Benha
Nationality:	Egyptian
Martial state:	Married
Address:	Egypt - kalybia - Benha - Sad Zaghloul Street, No.1, 13111
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Military service:	Exempted

Current University

Menoufia University

Current Faculty

Faculty of Electronics Engineering

Current Department

Computer Science and Engineering Department

General Specialization

Computer Science and Engineering Department

Fine Specialization

Artificial Intelligence

ACADEMIC QUALIFICATIONS

First University Degree: (B.SC. Electronics Engineering)

Date awarded: 1995 **Average Grade:** Very good with rank of honor

College (or Faculty): Faculty of Electronics Engineering

Name and place of University: Menoufia University, Menoufia, Egypt

Specialization: Computer Science and Engineering

Title of graduation project: An Expert System for Islamic Heritage Rules

Second University Degree: (M.SC. Electronics Engineering)

Date awarded: 2001

College (or Faculty): Faculty of Electronics Engineering

Name and place of University: Menoufia University, Menoufia, Egypt

Specialization: Computer Science and Engineering

Title of graduation project: Utilization of Multi-Intelligent Agents for Problem Solving

Third University Degree: (PhD Electrical Engineering and Information Technology)

Date awarded: 2009

College (or Faculty): Faculty of Electrical Engineering

Name and place of University: Czech Technical University, Prague, Czech

Specialization: Department of Cybernetics

Title of graduation project: Multi Agent Systems for Artificial Life Domain

LANGUAGES

Language proficiency	Reading			Writing			Conversation		
	Excellent	Fair	Weak	Excellent	Fair	Weak	Excellent	Fair	Weak
Arabic									
English									
Czech									

EMPLOYMENT HISTORY

Institution (place of work)	Period		Job Title (Academic rank)	Nature of Work
	From	To		
Faculty of Electronics Engineering	Dec. 1995	May 2001	Demonstrator	Teaching, Training and Research
Faculty of Electronics Engineering	June 2001	Sept. 2004	Assistance Lecturer	Teaching, Training and Research
Czech Technical University	Sept. 2005	Aug. 2008	Researcher	Research
Faculty of Electronics Engineering	Feb. 2009	Up till now	Lecturer	Teaching and Research

EXPERTISE SERVICES

* Membership of local, regional and international professional organizations and nature of membership.

Name of organization or society	Membership period		Nature of membership
	From	To	
The Institute of Electrical and Electronics Engineering (IEEE)	1/1/2000	1/1/2001	Student
IASTED, Computer Standards & Interfaces International Journal of Computer Science Issues			Reviewer

TRAINING ACTIVITIES

Name of training program	Place	Date
Egyptian training program for new employers	Menouf	1/4/2002
Workshop in Management of Information Technology services and scientific research related to it.	Cairo	28/7/2009
Workshop about the Future technology of Intel Microprocessor	Cairo	25/11/2010
Workshop about the future of E-learning in Egypt	Cairo	4/7/2011
Many training courses for the development of the capability of faculty members	Menoufia University	In 2008 In 2015
Train of trainer (TOT) from IBCT (level1- AT)	Menoufia University	In 2015
Quality Assurance in Higher Education	Menoufia University	In 2016
Train of trainer (TOT) from IBCT (level 2- CPT)	Menoufia University	In 2017

WORK EXPERIENCE

1. Many years in teaching faculty academic courses (theoretical and practical) such as: Artificial Intelligence, Computer Networks, Compiler Design, Computer Operation, Information Assurance and Security, Computer Graphic, Distributed and Parallel Computing.
2. Training for computer programs and programming languages as (Windows, Office, C, C++, Visual Basic, HTML, Java)
3. (3) years as a researcher in Czech technical University, Faculty of Electrical Engineering in the field of Artificial Intelligence, Artificial Life, Multi Agent System and Machine Learning Algorithms.
4. Share in Learning project in Egyptian E-Learning University (EELU)
5. Programming Without Code Technology Developer
6. Editorial Board in Mathematics and Computer Science from SciencePG, (person ID: 10115948).

REFERENCES

1- Assoc. Prof. **Pavel Nahodil**, Associate Professor, Lecturer in Biomedical Engineering and in Intelligent Mobile Robots Control, Head o Mobile Robotics Group, Department of Cybernetics, Faculty of Electrical Engineering, Czech Technical University. (nahodil@fel.cvut.cz)

2- Prof. **Nabil AbdElwahd Ismail**, Professor of Computer science and Engineering Department, Faculty of Electronics Engineering, Menoufiya University.(nabil_is@hotmail.com)

3- Prof. **Taha Elsayed Taha**, Professor in Electronics and Communications Engineering Department, Faculty of Electronics Engineering, Menoufiya University.(Taha117@hotmail.com)

4- Prof. **Nahwal Ahmed El-fishawy**, Professor and Head of Computer science and Engineering Department, Faculty of Electronics Engineering, Menoufiya University. (nelfishawy@hotmail.com)

5- Prof. **Ahmed AboElfadl**, Professor in Electronics and Communications Engineering Department, Faculty of Electronics Engineering, Menoufiya University. (ahmedabouelfadl@hotmail.com)

SCIENTIFIC RESEARCH

- **Papers and presentations at conferences and seminars.**

A) Published Papers

1. Essa, Y. Mahrous, G. El-Sayed, A. and **Elmahalaway, A.** (2018) Data processing platforms for electronic health records. In: Health and Technology journal, Springer Berlin Heidelberg, doi.org/10.1007/s12553-018-0219-5. Print ISSN2190-7188, Online ISSN2190-7196.
2. Al-Afandy, K. El-Shafai, W. El-Rabaie, E. Abd El-Samie, F. Faragallah, O. **El-Mhalaway, A.** Shehata, A. El-Banby, G. and El-Halawany. M. (2018) Robust hybrid watermarking techniques for different color. In: Multimedia Tools and Applications, PP. 1:55.

3. Essa, Y. El-Sayed, A. Mahrous, G. and **Elmahalawy, A.** (2017) A Distributed Multiagent Architecture for self-healing Healthcare Data Center. In: 4th IEEE International Conference on Engineering Technologies and Applied Sciences (ICETAS 2017), 29 Nov - 1 Dec 2017,
4. Murtada, W. **Elmahalawy, A.** and Mounir Y. (2017) Efficient Design of Intelligent Telemetry Learning Agent for Recovering the Satellite Attitude Control System Anomalies. In: International Journal of Computer Science and Information Security (IJCSIS), Vol. 15, No, 6, June 2017
5. Al-Afandy, K. EL-Rabaie, E. Abd El-Samie, F. Farag Allah, O. **Elmahalawy, A.** and Shehata, A. (2016) Robust Color Image Watermarking Technique Using DWT and Homomorphic based SVD. In: Graphics, Vision and Image Processing Journal, ISSN 1687-398X, Vol.16, Iss., ICGST LLC, Delaware, USA, Dec. 2016.
6. Al-Afandy, K. EL-Rabaie, E. Abd El-Samie, F. Farag Allah, O. **Elmahalawy, A.** and Shehata, A. (2016) A Comparative Study for Color Systems Used in the DCT-DWT Watermarking Algorithm. In: Advances in Science, Technology and Engineering Systems Journal (Special issue on Recent Advances in Electrical and Electronics Engineering) Vol. 1, No. 5, PP.42-49.
7. Al-Afandy, K. Farag Allah, O. El-Rabaie, E. **Elmahalawy, A.** and El-Banby, G. (2016) High Security Data Hiding Using Image Cropping and LSB Least Significant Bit Steganography. 4th International Colloquium On Information Science And Technology (IEEE CiSt 2016), 24-26 OCTOBER 2016, TANGIER-ASSILAH, MOROCCO
8. Al-Afandy, K. El-Rabaie, E. Fathi Abd El-Samie, F. Farag Allah, O. and **Elmahalawy, A.** (2016) A Hybrid Scheme for Robust Color Image Watermarking Using DSWT in DCT Domain. In: 4th International Colloquium On Information Science And Technology (IEEE CiSt 2016), 24-26 OCTOBER 2016, TANGIER-ASSILAH, MOROCCO.
9. Farouk, M. Faragallah, O. Elshakankiry, O. **Elmahalawy, A.** (2016) Comparison of Audio Speech Cryptosystem Using 2-D Chaotic Map Algorithms. In: Mathematics and Computer Science journal, vol.1, no. 4, pp. 66-81, science publishing group. doi: 10.11648/j.mcs.20160104.11
10. Taher, F. El-Sayed, A. Shouman. A. and **Elmahalawy, A.** (2016). Comparing Different Techniques for Controlling Traffic Signals. In:

11. Farouk, M. Faragallah, O. Elshakankiry, O. **Elmahalawy, A.** and El-sayed, H. (2016) Enhanced Audio Cryptosystem Using Multiple Secret Keys and Permutations in Time and Transform Domains. In: Minufiya J. of Electronic Engineering Research (MJEER), Vol. 25, No. 2, pp. 191- 211, July 2016.
12. Al-Afandy, K. Farag Allah, O. El-Rabaie, E. and **Elmahalawy, A.** (2016) Efficient Color Image Watermarking Using Homomorphic based SVD in DWT Domain. In: The Fourth International Japan-Egypt Conference on Electronics, Communications, and Computers, JEC-ECC 2016, May 31-June 2, 2016, Cairo, EGYPT
13. Al-Afandy, K. Farag Allah, O. El-Rabaie, E. **Elmahalawy, A.** and El-Banby, Gh. (2016) High Secure Data Hiding Using Cropping Image LSB Steganography. In: International Journal of Computer and Information Engineering Vol:3, No:2, 2016.
14. El-Sharkawi, A. **Elmahalawy, A.** and Mounir Y. (2016) Real Time Prediction and Correction of ADCS Problems in LEO Satellites Using Fuzzy Logic. In: The Egyptian Journal of Remote Sensing and Space Sciences, PII: S1110-9823(16)30002-3, DOI: 10.1016/j.ejrs.2016.03.002
15. El-Sharkawi, A. **Elmahalawy, A.** and Yassin Mounir Yassin (2016) Real Time Fault Correction of ADCS Reaction Wheel Problems in LEO Satellites Using Fuzzy Logic. In: World Symposium on Computer Application & Research (WSCAR' 2016).
16. Farouk, M. Faragallah, O. Elshakankiry, O. **Elmahalawy, A.** and El-sayed, M. (2016). Modified Audio Cryptosystem Based on Multiple Secret Keys and Permutations. In: World Symposium on Computer Application & Research (WSCAR' 2016).
17. Taher, F. El-Sayed, A. Shouman. A. and Elmahalawy, A. (2016). "Studying different techniques for controlling traffic signals" In: World Symposium on Computer Application & Research (WSCAR' 2016).
18. **Emahalawy, A.** Ali, M. and Harb, H. (2014). Developing an Open Architecture and Intelligent System for Speed and Direction Controlling (PC-SDC) of DC Motors. In Arabian Journal for Science and Engineering, Volume 39, Issue 12, pp 8793-8810, December 2014. Print ISSN: 1319-8025, Online ISSN: 2191-4281.

19. **Elmahalawy, A.** (2014) A Car Monitoring System for Self Recording Traffic Violations. In: Journal of Traffic and Logistics Engineering (JTLE) Volume 2, No. 1 June 2014 issue.
20. **Emahalawy, A.** Ali, M. and Harb, H. (2013). Developing The Pulse Width Modulation Tool (PWMT) for Two Timer Mechanism Technique in Microcontrollers. In: 2013 Second International Japan-Egypt Conference on Electronics, Communications and Computers (JEC-ECC'13), Cairo Egypt, from 17th to 19th December 2013.
21. **Elmahalawy, A.** (2013) Applying a New Communication Technique among Agents in Hospital Management System. In: *International Journal of Computer Applications (0975 – 8887) Volume 75– No.5, August 2013.*
<http://www.ijcaonline.org/archives/volume75/number5/13105-0409>
22. **Elmahalawy, A.** (2012) Intelligent Agent and Multi Agent Systems. In: Journal of Engineering and Technology, Vol. 2, No. 1. ISSN: 161-7155
23. **Elmahalawy, A.** and Nour El-dien, M. (2012). New development in Anticipatory Agent System used for Power Management in Smart Home Simulator. In: International Journal of Computer Science Issues, Vol. 9, Issue 2, No.2, March 2012. ISSN (Online): 1694-0814.
24. **Elmahalawy, A.** and Wahid, E. (2011). Investigation of Multi-agent Systems Scenarios, Learning, and Application. In: 1st International Conference on New Paradigms in Electronics & Information Technologies (PEIT' 011), October 09-12, 2011, Alexandria, Egypt.
25. **Emahalawy, A.** Ali, M. and Harb, H. (2011). Trends and Differences in Applying Intelligence to an Agent. In: Journal Of Telecommunications And Information Technology, no.4.
26. Nour El-dien, M. El-Fishawy, N. and **Elmahalawy, A.** (2010). Developing the simulator of Power Management in Smart Home. In the Proc. of *7th General International Engineering Conference (7th IEC)*, March 23 – 28, Mansoura/Sharm El-Sheikh, Egypt.
27. **Elmahalawy, A.** Elfishawy, N. and Nour El-dien, N. (2010). Anticipation the Consumed Electrical Power in Smart Home Using Evolutionary Algorithms. In Proc. of *the International Conference on Multimedia Computing and Information Technology (MCIT'10)*, March 2nd – 4th, University of Sharjah, U.A.E.
28. Nahodil, P. and **Elmahalawy, A.** (2008). Anticipation Behavior in a Simulator of Artificial Life. In: *Mendel'08, 14th International Conference on Soft Computing*, June 18-20, Brno, Czech Republic [CD-ROM].

29. **Elmahalawy, A.** (2008). Evaluation a New Anticipatory Agent System on a Maze Problem. In: *12th International Student Conference on Electrical Engineering, POSTER 2008* [CD-ROM], Prague, Czech Republic, 2008.
30. **Elmahalawy, A.** and Nahodil, P. (2008). Effects of Anticipation Behavior in Artificial Life. In: *Workshop 2008* [CD-ROM]. Prague: CTU, 2008. INF007. ISBN: 978-80-01-04016-4
31. Nahodil, P. and **Elmahalawy, A.** (2008). Anticipation Behavior Implemented in a Simulator of Artificial Life. In: *The 27th IASTED International Conference on Modelling, Identification, and Control (MIC 2008)*, Innsbruck, Austria, 2008.
32. **Elmahalawy, A.** and Nahodil, P. (2007). Studying Anticipation Behavior in ALife Simulator. In: *Research and Development in Intelligent Systems XXIV, AI-2007 Twenty-seventh SGA1 International Conference on Artificial Intelligence*, Cambridge, England, Part 9, pp. 369-374. Springer Verlag London, 2008. ISBN 978-1-84800-093-3 (Print) 978-1-84800-094-0 (Online)
33. **Elmahalawy, A.** and Nahodil, P. (2007). A New Approach Used for Anticipation to Improve the System's Behavior. In: *ECMS 2007, 21st EUROPEAN Conference on Modelling and Simulation*, Prague, Czech Republic, 2007, pp.599-604. ISBN : 978-0-9553018-2-7.
34. **Elmahalawy, A.** (2007). A New Approach in Learning Intelligent Multi Agent System. In: *ECMS 2007, 21st EUROPEAN Conference on Modelling and Simulation*, Prague, Czech Republic, 2007, pp.593-598. ISBN : 978-0-9553018-2-7.
35. **Elmahalawy, A.** (2007). Using Anticipation Behavior in Multi Agent Systems for ALife Domain. In: *11th International Student Conference on Electrical Engineering, POSTER 2007* [CD-ROM] , Prague, Czech Republic, 2007. ISBN: 070503-1444.
36. **Elmahalawy, A.** (2007). Developing Repertory Grid Technique for Learning Multi Agent Systems. In: *11th International Student Conference on Electrical Engineering, POSTER 2007* [CD-ROM], Prague, Czech Republic, 2007. ISBN: 070503-1444.
37. Kohout, K., Nahodil, P. and **Elmahalawy, A.** (2007). Anticipatory Behaving Creatures in the Artificial Life Domain – Preliminary Research. In: *Proc. of the 8th International PhD Workshop, Young Generation Viewpoint* [CD-ROM]. Budapest: Computer and Automation Research Institute, 2007, pp. 169-174.

38. **Elmahalawy, A.**, Nahodil, P. and Kohout, K. (2007). Simulation of Behavior in ALife Domain. In: *Workshop 2007* [CD-ROM]. Prague: CTU, 2007. INF027. ISBN: 978-80-01-03667-9.
39. **Elmahalawy, A.** (2001). *Utilization of Multi-Intelligent Agent Systems for Problem Solving*. A M.Sc. Thesis, Egypt: Menofia University, Faculty of Electronic Engineering, Department of Computer Science and Engineering, 2001.
40. **Elmahalawy, A.**, El-Nady, N., Ismail, N. and Kahil, E. (2000). Utilization of Multi-Intelligent Agent Systems For Problem Solving. In: *The Proc. of 8th International conference on Artificial Intelligence Applications (ICAIA'2000)*, Cairo, Egypt, 2000.

B) Accepted Papers

1. **Elmahalawy, A.** (2011). Developing Question Bank and Examination System using Agent Technology. In: *International Journal of Computer Information Systems*.
2. **Elmahalawy, A.** (2007). Using Repertory Grid in Learning Multi Agent Systems. Accepted for oral presentation and publication in *the Proc. of the XX. International Conference on Computer, Information, and Systems Science, and Engineering (ICCISSE 2007)*, Barcelona, Spain, April 25-27, 2007.
3. **Elmahalawy, A.**, El-Nady, N., Ismail, N. and Kahil, E. (2000). The Performance Analysis of Intelligent Agent Systems Using Repertory Grid Algorithm. Accepted for publication in *the 2000 International Conference on Artificial Intelligence (IC-AI'2000)*, Monte Carlo Resort, Las Vegas, Nevada, USA , June 26-29, 2000.

C) Published Books

1. **Elmahalawy, A.** (2011) Artificial Intelligence. In: Egyptian E-Learning University (EELU).
2. **Elmahalawy, A.** (2010) Multi Agent Systems for Artificial Life Domain. In: Lambert Academic Publishing AG & Co.KG, Germany. ISBN: 978-3-8383-4590-1.
3. Many lectures note for student in different subjects as: Artificial Intelligence, Coding & Data Security, Data Structure and Algorithms, Distributed System and Internet Technology, Graphic and Human Computer Interaction, Introduction of Database, Principals of Computer System.