Khalid Mohamed Amin, PH. D.

Professor of Information technology
Computers and Information Faculty, Menofia University,
Shebin Elkom 32511, Egypt.
https://orcid.org/0000-0002-9594-8827

Contact Information...

Home:
3,Al Amal st., Nozha Gedida, Heliopolis, Cairo, 11769

E-mail:
k.amin@ci.menofia.edu.eg
kh.amin.0.0@gmail.com

Telephone :
Faculty: +2 048 2316189 (internal: 203), +2 048 2223694 (Fax)
Mobile: +201007319838 ,
Home: +20226231366

Education...

- Ph. D. Electrical communication and electronics engineering dept.,
  Faculty of Engineering, Ain Shams Univ. Cairo, Egypt, 2006.
  Thesis title : " Modeling of electrical overstress effects in silicon over insulator devices"

- M. SC. Electrical communication and electronics dept. engineering,
  Faculty of Engineering, Ain Shams Univ. Cairo, Egypt, 1998.
  Thesis title : " MOS device characterization at low temperatures"

- B. SC. Electrical communication and electronics dept. engineering,
  Faculty of Engineering, Ain Shams Univ. Cairo, Egypt, 1989.

Professional Experience...

1. [Sept. 2015 till Now] Head of Information Technology dept.,
   Computers and Information Faculty, Menofia University, Shebin Elkom 32511, Egypt.
2. [Feb. 2012 till Aug. 2015] Head of Biomedical Engineering Dept.,
   Higher technological institute, Tenth of Ramadan city, Egypt

3. [Nov. 2012 till Now] Ass. Prof., Information Technology dept., Computers and Information Faculty, Menofia University, Shebin Elkom 32511, Egypt.
4. [Sep 2007 – Feb. 2012] Lecturer (Part time), Mechatronics dept., Higher Technological Institute .Tenth of Ramadan City.
5. [Sep 2009 – Feb 2010] Lecturer (Part time), Faculty of Engineering, The Egyptian Russian University, Badr City.
6. [MAY 2007 – Nov. 2012] Lecturer, Information Technology dept., Computers and Information Faculty, Menofia University, Shebin Elkom 32511, Egypt.
7. [1997 – 2007] Avionics Engineer, Egypt Air- Maintenance & Engineering Co., Cairo International Airport.
8. [1990 – 1997] Senior Quality Engineer, Quality facilities Dept., Arab British Dynamics Co., Cairo.

On-job Training courses...

1. Thinking skills, **Menofia University training center, 2 days, 2017.**
2. Ethics of Scientific Research, **Menofia University training center, 2 days, 2017.**
3. Lifelong learning, **Menofia University training center, 2 days, 2017.**
4. Use of technology in teaching, **Menofia University training center, 2 days, 2017.**
5. Credit hours, **Menofia University training center, 2 days, 2017.**
6. Use of global databases, **Menofia University training center, 2 days, 2017.**
7. Behaviors of Profession, Menofia University training center, 3 days, 2012.
8. Organization of Scientific conferences, Menofia University training center, 3 days, 2012.
9. Scientific publishing, Menofia University training center, 3 days, 2012.
10. Education quality metrics, Menofia University training center, 3 days, 2012.
11. Legal and financial aspects of university works, Menofia University training center, 3 days, 2012.
12. Oracle database 10g (SQL), Orascom training center (Heliopolis), 12 days, 2008.
13. Soft skills, Orascom training center (Heliopolis), 12 days, 2008.
14. Introduction to portal design on the internet, Orascom training center (Heliopolis), 4 days, 2008.
15. Leadership of research team, Menofia University training center, 3 days, 2007.
16. Human factor in Aviation industry Egypt Air, Cairo airport, 3 days, 2006.
17. Many Aviation electronics courses Egypt Air, Cairo Airport, during the period from 1998 to 2006.
18. Basic Avionics Engineer course, Egypt Air training center, Cairo Airport, 4 months, 1997.

19. Introduction to Hydraulic systems, Arab Aviation Technology
    Institute, 7 days, 1992.
20. Total Quality Management, ABD Co., Cairo, 7 days, 1991.

University Teaching...

A. Undergraduate level- courses
1. Physics
2. Statistics I & II
3. Digital signal processing.
4. Digital image processing
5. Logic design
6. Programming using C++
7. Mobile networks
8. Computer interfacing
9. Electromagnetic waves
10. Microcontrollers and Microprocessors systems
11. Speech Recognition
12. Natural language processing
13. Signals and systems analysis.
14. Random signals and information theory

B. Postgraduate level- courses
1. Artificial neural networks
2. Biometrics
3. Document image analysis
4. Speech Processing
5. Advanced signal processing

Funded graduate and research projects...........................

1. 2009/2010 – (LE 10,000)ABGAD: An Arabic Optical Character Recognition Application for Mobile phones { Funded by Information Technology Industry Development Agency – ITIDA, Ministry of Communications and Information Technology – MCIT}
2. 2011/2012 – (LE 20,000) "Automatic processing for images of ancient manuscripts", Research project funded by Menofia University for one year.

List of Publications...

Journal papers
1. Amin K.M.; W. Fikry, M.N. Sabry and H.F. Ragai: " Modeling of thermal failure of metallic interconnects under electrostatic discharge transients", J. Electronics letters, Vol. 41, Issue 19, pp. 1056-1057, Sept. 2005. {Link}
2. Amin, K.M., Mohsen, F.M.A. and Hadhoud, M.M.: "A new optimization-based image segmentation method by Particle swarm optimization", Int. Journal of advanced Computer Science and applications, sp. issue on image processing and analysis, pp. 10 – 18, May 2011. {Link}

3. Fahd Mohsen ; Mohiy Hadhoud ; Kamel Mostafa, and Amin, K.M : "A New Image Segmentation Method Based on Particle Swarm Optimization", the international Arab journal of information technology, Vol. 9, Issue. 5, Sept. 2012. {Link}

4. Khalid M. Amin: "An Automatic Recognition System For the Egyptian Color- Coded Vehicle License Plate", Int. journal of intelligent computing and information sciences, Vol. 13 , Issue (1), Jan 2013. {Link}

5. Khalid M. Amin , M. A. Ahmad , A. Ali, "a novel binarization algorithm for historical Arabic manuscripts using wavelet denoising", Int. journal of intelligent computing and information sciences, Vol. 13 , Issue (2), Mar. 2013. {Link}

6. T. Atallah, Khalid M. Amin; Hadhoud, M.M. and Elkliani, Wail S, "An Enhanced Generic Protocol for Network Aggregation", Int. journal of intelligent computing and information sciences, Vol. 13 , Issue (4), Oct. 2013.

7. Adbelsalam, A. M., Elkliani, Wail S, Khalid M. Amin, "An Automated approach for Preventing ARP Spoofing Attack using Static ARP Entries" Int. Journal of advanced Computer Science and applications, Feb. 2014. {Link}

8. Hassanien, A. E., Abd Elfattah, M., Amin, K. M., & Mohamed, S. (2015). A novel hybrid binarization technique for images of historical Arabic manuscripts. Studies in Informatics and Control, 24(3), 271-282. {Link}

9. Amin, K. M., Shahin, A. I., & Guo, Y. (2016). A novel breast tumor classification algorithm using neutrosophic score features. J. Measurement, 81, 210-220. {Link}

10. Shahin, A. I., Guo, Y., Amin, K. M., & Sharawi, A. A. (2017). White blood cells identification system based on convolutional deep neural learning networks. Computer methods and programs in biomedicine. {Link}

11. Shahin, A. I., Guo, Y., Amin, K. M., & Sharawi, A. A. (2018). A novel white blood cells segmentation algorithm based on adaptive neutrosophic similarity score. Health information science and systems, 6(1), 1. {Link}

12. Shahin, A. I., Amin, K. M., Sharawi, A. A.& Guo, Y., (2018). A novel enhancement technique for pathological microscopic image using neutrosophic similarity score scaling. Optik, 161(1), 84-97 { https://doi.org/10.1016/j.ijleo.2018.02.026}{Link} (available at : http://fs.unm.edu/neut/ANovelEnhancementTechniquePathological.pdf)

13. Elzoghbi, Mahmoud and Ghanem, Tamer and Amin, Khalid , Lightweight framework for preserving network policies in dynamic SDN topologies, Jan. 2018, SSRN Electronic Journal {DOI: 10.2139/ssrn.3389770}

14. Hend Bakr; Ahmed Hamad; Khalid M. Amin (2020); Mask R-CNN for Moving Shadow Detection and Segmentation, IJCI. International Journal of Computers and Information,Vol. 7, { DOI: 10.21608/IJCI.2020.44215.1029} {available at: https://ijci.journals.ekb.eg/article_119455_0.html}

15. George Fahim, Khalid Amin, Sameh Zarif, Single-View 3D reconstruction: A Survey of deep learning methods, Computers & Graphics, Volume 94, 2021, Pages 164-190, ISSN 0097-8493, {https://doi.org/10.1016/j.cag.2020.12.004. } (http://www.sciencedirect.com/science/article/pii/S0097849320301849)

16. Marian Wagdy, Mina Ibrahim, Khaild Amin, Document Skew Detection and Correction Using Ellipse Shape, int. j. of imaging and robotics, 2019, Vol.19, Iss.4 . pp: 66-82. { http://www.ceser.in/ceserp/index.php/iji/article/view/6271 }

17. Marian Wagdy, Mina Ibrahim, Khaild Amin, Dewarping Document Image Techniques: Survey and Comparative Study, Int. J. of Image and Graphics,

{https://doi.org/10.1142/S0219467821500315
}{https://www.worldscientific.com/doi/10.1142/S0219467821500315

Book Chapters

1. Fouad M.M., Amin K.M., El-Bendary N., Hassanien A.E. (2015) Brain Computer Interface: A Review. Brain-Computer Interfaces. Intelligent Systems Reference Library, vol 74. Springer. {Link}

Conference papers

1. Amin, K.M. and El-Etriby, S.S.: "Detection and correction of deformed historical Arabic manuscripts", Int. conf. on Computer and Communication Engineering, pp.1-6, May 2010, Malaysia. {Link}
2. Amin, K.M; Abdel-massieh, N.H. and Hadhoud, M.M.: "Fully automatic technique for Hepatic Tumor segmentation in medical images", 20th Int. Conf. on computer theory and applications, pp. 43-47, Oct. 2010, Egypt.
3. Amin, K.M.; Abdel-massieh, N.H. and Hadhoud, M.M: "A novel fully automatic technique for liver tumor segmentation from CT scans with knowledge-based constraints", 10th Int. Conf. on Intelligent Systems Design and Applications , pp. 1253 – 1258, Dec. 2010, Egypt.
4. Amin, K.M.; Mohsen, F.M.A. and Hadhoud, M.M.: "Particle swarm optimization method for very low bit rate segmented image compression", Int. Conf. on Computer Engineering and Systems , pp. 15 – 20, Dec. 2010, Egypt.
5. Amin, K.M, Abdel-massieh, N.H. and Hadhoud, M.M., "Fully automatic liver tumor segmentation from abdominal CT scans", Int. Conf. on Computer Engineering and Systems, pp. 197-202, Dec. 2010, Egypt. {Link}
6. Amin, K.M ; Abdel-massieh ; N.H. and Hadhoud , M.M.: "Automatic liver tumor segmentation from CT scans with knowledge-based constraints", 5th Int. conf. on Biomedical Engineering, pp. 215-218 , Dec. 2010, Egypt.{Link}
7. Amin, K.M.; Rashad, M. ; Hadhoud, M.M. and Elkliani, Wail S.: "Multi Font Printed Arabic Character Recognition Using Statistical/ Structural and Geometric Moments Features", 5th Int. conf. on intelligent computing and information systems, pp. 353 – 357, July 2011, Egypt.
8. Rashad M.; Amin, K.M.; Hadhoud, M.M. and Elkliani, Wail S.: "Arabic character recognition using statistical and geometric moment features", the 2012 Japan-Egypt Conf. on Electronics, Communications and Computers, Alexandria. {Link}
9. Marwa Rashad, Khalid M. Amin, Mohiy M. Hadhoud, Wail S. Elkliani, Multi Font Printed Arabic Character Recognition Using Statistical/ Structural and Geometric Moments Features, 5th Int. conf. on intelligent computing and information systems, icicis, pp. 353 – 357, 2011
10. Amin, K. M., Elfattah, M. A., Hassanien, A. E., & Schaefer, G., A Binarization algorithm for historical Arabic manuscript images using a neutrosophic approach. 9th int. conf. on Computer Engineering & Systems (ICCES), Dec. 2014, pp. 266-270. {Link}
11. Elfattah, M. A., Hassanien, A. E., Mostafa, A., Ali, A. F., Amin, K. M., & Mohamed, S. Artificial bee colony optimizer for historical Arabic manuscript images binarization. 11th int. Computer Engineering conf., 2015, pp. 251-255. { https://ieeexplore.ieee.org/abstract/document/7416357 }

12. Nagwa M. Aboelenin, Khalid M.Amin, Mina I.Samaan, and M. M.Hadhoud, "Improved Performance Of Text –Independent Speaker Identification Using MFCC, LPC and Gender Detection",5[th]int.conf. on Mathematics and information sciences ,Zewail city of Science and Technology,Egypt 2016. {Link}

13. Aboelenein, N. M., Amin, K. M., Ibrahim, M., & Hadhoud, M. M., Improved text-independent speaker identification system for real time applications. 4th International Japan-Egypt Conf. on Electronics, Communications and Computers (JEC-ECC),2016, pp. 58-62, Alexandria. {Link}

14. A. Afifi, Khalid M. Amin, An Efficient System for Melanoma Diagnosis in Dermo-scopic Images, 12th Int. conf. on Computer Engineering and Systems,2017, Cairo. { https://ieeexplore.ieee.org/abstract/document/8275278 }

15. Ahmed F. Gad, Ahmed M. Hammad, Khalid M. Amin, Crowd Density Estimation Using Multiple Features Categories and Multiple Regression Models, 12th Int. conf. on Computer Engineering and Systems,2017, Cairo. { https://ieeexplore.ieee.org/abstract/document/8275346 }

16. Elzoghbi, Mahmoud and Ghanem, Tamer and Amin, Khalid, Lightweight Framework for Preserving Network Policies in Dynamic SDN Topologies (October 27, 2018). Proceedings of the 11th International Conference on Informatics & Systems (INFOS 2018), Available at SSRN: https://ssrn.com/abstract=3389770 or http://dx.doi.org/10.2139/ssrn.3389770}

17. HF Bakr, AM Hamad, KM Amin, Detecting Moving Shadow using a Fusion of Local Binary Pattern and Gabor Features, (2018) 13th Int. conf. on Computer Engineering and Systems. {available at: https://www.researchgate.net/profile/Hend_Farag/publication/331108190_Detecting_Moving_Shadow_using_a_Fusion_of_Local_Binary_Pattern_and_Gabor_Features/links/5d22638492851cf4406f3e1b/Detecting-Moving-Shadow-using-a-Fusion-of-Local-Binary-Pattern-and-Gabor-Features.pdf }

18. Samah E. Kamel; Tamer F. Ghanem; Khalid M. Amin; Hatem Abdelkader, Efficient energy management technique for WSNs, 2017 12th International Conference on Computer Engineering and Systems (ICCES), {Available at: https://ieeexplore.ieee.org/abstract/document/8275289 }

19. Maha M Khalil, Ahmed Afifi, Khalid M Amin, Mobile-based Environment to Facilitate Rehabilitation of Adults Post-Injuries, 14th Int. conf. on Computer Engineering and Systems,2019, pp. 222-227, Cairo. {available at: https://www.researchgate.net/profile/Maha_Mohy2/publication/340689996_Mobile-based_Environment_to_Facilitate_Rehabilitation_of_Adults_Post-Injuries/links/5e9aab4fa6fdcca789209b2e/Mobile-based-Environment-to-Facilitate-Rehabilitation-of-Adults-Post-Injuries.pdf }.

20. A. Moosa, A. Afifi and K. M. Amin, "Automatic Diagnosis of Melanoma Through the Analysis of Dermoscopic Images", 2020 15th International Conference on Computer Engineering and Systems (ICCES), Cairo, Egypt, 2020.

21. E. Shaltout, A. Afifi and K. M. Amin, "Augmented Reality Based Learning Environment for Children with Special Needs", 2020 15th International Conference on Computer Engineering and Systems (ICCES), Cairo, Egypt, 2020.

22. A. Wazwaz, K. M. Amin, Error Rate Control in Humidity and Temperature Sensors Using IoT and ThingSpeak, ICICM 2020: Proceedings of the 2020

10th Int. Conference on Information Communication and Management, August 2020, Pages 71-75{https://doi.org/10.1145/3418981.3418993}

23. Marian Wagdy, Mina Ibrahim, Khaild Amin, Warping Document Image Detection and Correction using Checkboard Calibration Pattern, The 6th International Conference on Advanced Intelligent Systems and Informatics, AISI2020'.