

CV of Ashraf A. M. Khalaf



1. PERSONAL DATA

Name: Ashraf Abdel Moneim Khalaf (**Ashraf A. M. Khalaf**)

Date of Birth: 24th May 1966

Place of Birth: Minia, Egypt

Nationality: Egyptian

Contact Address: Faculty of Engineering, Dept. of Electronics and Communications Engineering, Minia University, El-Minia61111, Egypt.

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https://www.researchgate.net/profile/Ashraf_Khalaf3

<https://scholar.google.com/citations?hl=en&user=19-fwLEAAAJ>

2. ACADEMIC/PROFESSIONAL PARTICULARS

(a) Field of Specialization: Electrical Communications Engineering, Digital signal Processing

(b) Academic Qualifications: PhD in Digital Signal Processing (DSP), Year2000, Kanazawa, Japan.

Thesis Title: A Hybrid Nonlinear Predictor Combining Neural Network and FIR Filter : Structure, Learning Algorithms, And Mechanism of Prediction.

(c) Membership of Professional Bodies: IEEE Com Soc., Member, Joining Date (year 1998) and stopped payment at year 2003 because of University payed for a general licience.

(d) Language Proficiency: Arabic and English

3. CAREER DETAILS

(a) Academic Positions Held

1-Teaching Assistant: In Dept. of Elect. Eng., Minia University from July 1989 to Dec.1995.

2- Assistant prof.: In Dept. of Electronics and Communications Eng, Minia University from June 2000 to July 2015

3. Associate prof.: In Dept. of Electronics and Communications Eng, Minia University from July 2015 to present

4. Full Professor: on DSP, In Dept. of Electronics and Communications Eng, Minia University from June 2020 to present

(b) Professional/Industrial Positions Held

Assistant Prof. in the Technical college of Taif, KSA from the year 2003 until 2009

(c) Administrative Positions Held

E- Learning project manager, Minia University, Period (2009- 2011)

4. Teaching

(a)Summary of Courses Taught

- 1- Fundamental of digital circuits
- 2- Fundamental of Electronics
- 3- Fundamentals of Electric circuits
- 4- Communication systems
- 5- Communication theory
- 6- Adaptive filters & Digital signal processing
- 7- Neural Networks and their applications

(b) Research Students Supervised/Trained Level Number of Trainees **Postdoctoral Fellows**

PhD Students: 7 - Master Students:15 - Undergraduate Students: 50

(c) Participation in Thesis and Oral Examination Committees Level Number of Examinations

PhD Students: 4 - Master Students: 5

(d) Training Teaching & Learning Methods

I'm doing my job in teaching and learning methods in the Dept. of Electrical, Electronics and Communications Engineering, Minia University in the period (year 1989 – till now).

5. RESEARCH

(a) Research Interests

List of research interests in order of priority

- 1- Artificial Intelligence and Neural Networks and their applications in the field of communications and Digital Signal Processing.
- 2- Image and general signal processing
- 3- Adaptive filter design and applications
- 4- Adaptive algorithms and nonlinear time series analysis and prediction
- 5- Biomedical signal processing and applications
- 6- Optical Communications & devices.
- 7- Computer Network security

(b) Research Students Supervised/Trained Level Number of Trainees Postdoctoral Fellows

PhD Students: 15 - Master Students: 15 - Undergraduate Students: 50

(c) Participation in Thesis and Oral Examination Committees Level Number of Examinations

PhD Students: 4 - Master Students: 10

(d) Training Teaching & Learning Methods

I'm doing my job in teaching and learning methods in the Dept. of Electrical, Electronics and Communications Engineering, Minia University in the period (year 1989 – till now).

(e) Publications/Citations Data

Number of Publications Articles in International Refereed: 25

Number of Publications Articles Conference Papers: 40

Books/Book Chapters: 2

Data: 3

Citation Source Number of Citations

Research Gate: https://www.researchgate.net/profile/Ashraf_Khalaf3

Google Scholar: <https://scholar.google.com/citations?hl=en&user=19-fwLEAAAAJ>

(f) Membership of Institutional, National, International Scientific Advisory, or international Journals Boards

- 1- IEEE Transactions on Evolutionary Computation.
2. SIMULATIONWOS.
3. Proceedings of the International Conference on Microelectronics, ICM
4. The International Conference on Advanced Communication Technology, ICACT.
5. IEEE supported international conference, South Korea ICACT, Technical Program Committee and (Reviewer) for the Period (year 2013 – Till now).
<http://icact.org/common/committee.asp>
6. IEEE-ITCE conference in Egypt.
<http://itce-conference.org/index.php/organizing-committee>

(g) Service as Reviewer Journals Name of Journal, ISSN No., Publisher:

- 1- IEEE Transactions on Evolutionary Computation ISSN: 1089-778X IEEE
- 2- IET Computers and Digital Techniques.
- 3- Electronics Letters
- 4- SIMULATION ISSN: 0037-5497 SAGE Journals
- 5- IEEE Transactions on Biomedical Engineering
- 6- IEEE Access.
- 7- Journal of Physics and Astronomy Research
- 8- The Journal of Supercomputing.
- 9- IETE Journal of Research
- 10- Many IEEE Conferences
<https://publons.com/researcher/1283723/ashraf-am-khalaf/peer-review/>

6. List of Publications (in chronological order, starting with most old)

[1] A.A.M.Khalaf, K.Nakayama, and K. Hara, ``A NeuralFIR Predictor: Minimum Size Estimation Based on Nonlinearity Analysis of Input Sequence,`` Proc. of ICANN'97, Lausanne, Switzerland, pp.1047-1052, Oct.1997.

- [2] **A.A.M.Khalaf**, and K.Nakayama, "An Input Sequence Analysis for a Hybrid Neural Predictor," Technical Report of IEICE, Kanazawa, Japan, pp. 9-16, May, 1997.
- [3] **A.A.M.Khalaf**, and K.Nakayama, "A Hybrid Neural Predictor and Its Convergence Analysis," Proc. of the 10th Karuizawa Workshop on Circuits and SystemsKaruizawa, Japan, pp. 357-362, April 1997.
- [3] **A.A.M.Khalaf**, K.Nakayama, "Time Series Prediction Using a Hybrid Model of Neural Network and FIR filter," IEEE&INNS Proc. of IJCNN'98, Anchorage, Alaska, pp.1975- 1980, May 1998. [4]A.A.M.Khalaf, K.Nakayama, "A Cascade Form Predictor of Neural and FIR Filters and Its Minimum Size Estimation Based on Nonlinearity Analysis of Time Series," IEICE Trans. Fundamental, vol. E81-A, No. 3, pp. 364--373, March 1998.
- [5] **A.A.M.Khalaf**, K.Nakayama, "Time Series Prediction Using a Hybrid Model of Neural Network and FIR filter," IEEE&INNS Proc. of IJCNN'98, Anchorage, Alaska, pp.1975- 1980, May 1998.
- [6] K.Hara, K.Nakayama and **A.A.M.Khalaf**, "A Training Data Selection in On-Line Training for Multilayer Neural Networks," IEEE&INNS Proc. of IJCNN'98, Anchorage, Alaska, pp.1975-1980, May 1998.
- [7] **A.A.M. Khalaf** and K.Nakayama, "A hybrid nonlinear predictor: Analysis of learning Process and predictability for noisy time series", IEICE Trans. Fundamentals, Vol.E82-A,No.8, pp.1420-1427, Aug. 1999.
- [8] **A.A.M.Khalaf** and K.Nakayama,"A Hybrid Nonlinear Predictor in the Noisy Environment", Proc. Of MICATE'99, Minia, Egypt, pp.218-227, July 1999.
- [9] **A.A.M.Khalaf** and K.Nakayama,"A learning algorithm for a hybrid nonlinear predictor Applied to noisy nonlinear time series", IEEE&INNS Proc. IJCNN'99, WashingtonDC, pp., July 1999.
- [10] **A.A.M.Khalaf**, M.A.M.Abo-Eldahab and M.A. Moenes, "Nonlinear Signal Generator Modeling Using Neural Network, " 2nd Minia international conference for advanced Trends in engineering (MICATE'2002), April 79, pp.915-926, 2002.
- [11] **A.A.M.Khalaf**, M.A.M.Abo-Eldahab, and M. Mones Ali, "Effects of SNR on system Modeling using neural networks," In The 2003 International Conference on Machine Learning; Models, Technologies and Applications (MLMTA: June 23-26, 2003, Las Vegas, Nevada, USA).
- [12] **A.A.M.Khalaf**, M.A.M.Abo-Eldahab, and M. Mones Ali, "System modeling using Neural networks in the presence of noise." In the ICECS-2003 The 2003 International Conf., July 2003, Sharja UAE.
- [13] Hesham F. A. Hamed and **A.A.M.Khalaf**, "±1 V Supply Second Generation Current Conveyor in Standard CMOS Technology For Low Voltage low Power Analog Circuits Applications." In the ICECS-2004, 11th IEEE International Conf., 2004.

[14] Hesham F. A. Hamed and **Ashraf A. M. Khalaf**, " Differential Voltage Current Conveyor and Fully Differential Current Conveyor in Standard CMOS Technology For Low Voltage Analog Circuits Applications." In the ICECS-2005, Tunisia 2005.

[15] **أشرف عبد المنعم خلف** و علي بن سعد العصيمي " تفعيل دور التقويم ضمن الاتجاهات الحديثة ٢٠٠٦ ديسمبر ٦-٢ في [15] التعليم التقني." المؤتمر والمعرض السعودي الرابع من

[16] **Ashraf A.M.Khalaf**, " New Modified Algorithms and Their Performances ", In the Proceeding of the Fifth International Saudi Technical Conference and Exhibition (STCEX2009), pp. 1521, Jan.(11-14), 2009

[17] **Ashraf A.M. Khalaf**, Mahmoud A.A. Ghany, Hesham F. A. Hamed , H.H.Eltamaly, "A Communication Channel Equalizer Using Neural Networks", In the Proceeding of the Fifth International Saudi Technical Conference and Exhibition (STCEX2009), Vol. II, pp. 15-21,Jan.(1114), 2009.

[18] Fathy M. Mustafa, **Ashraf A. Khalaf** and F. A. El-Geldawy, " Improvement the Flatness, Gain and Bandwidth of Cascaded Raman Amplifiers for Long- Haul UW-WDM Optical Communications Systems," in International Journal of Computer Science Issues, Vol. 8, Issue 6, No 1, PP. 377-384, November 2011

[19] Fathy M. Mustafa, **Ashraf A. Khalaf** and F. A. El-Geldawy, " Distributed Multi-Raman Amplifier for Long-Haul UW-WDM Optical Communications Systems, "Journal of Al Azhar University Engineering Sector, Cairo, Egypt , Vol. 7, No.22, pp. 171-182, January, 2012.

[20] Fathy M. Mustafa, **Ashraf A. Khalaf** and F. A. El-Geldawy, " Improvement the Flatness, Gain and Bandwidth of Cascaded Raman Amplifiers for Long- Haul UW-WDM Optical Communications Systems," Journal of Al Azhar University Engineering Sector, Cairo, Egypt, Vol. 7, No.22, pp. 274-285, January, 2012.

[21] **Ashraf A.M. Khalaf**, " 'Improvements in the Channel Equalizer Performance Using Modified LMS and BP Algorithms,"in International Journal of Computer Science Issues, Vol. 9, Issue 2, No. 1, pp. 428432, March 2012.

[22] Fathy M. Mustafa, **Ashraf A. Khalaf** and F. A. El-Geldawy," Effect of Distributed Multi-Raman Amplifiers on Bandwidth, Gain and the Flatness of the Gain," Journal of American Science 2012;8(10), pp. 267274, Oct., 2012.

[23] F. M. Mustafa, **A. A. Khalaf**, F. A. El-Geldawy," Multipumped Raman Amplifier for Long-Haul UW-WDM Optical Communication Systems: Gain Flatness and Bandwidth Enhancements", In proceeding of int. conference (ICACT2013), pp.122-127, Jan., 2013.

[24] F. M. Mustafa, **A. A. Khalaf**, F. A. El-Geldawy, " Gain and Bandwidth Improvements for Distributed Raman Amplifier in UW-WDM Systems", Transactions on Advanced Communications Technology(TACT), pp. 329-336, Vol. 2, Issue 6, November 2013.

[25] **Ashraf. A. Khalaf**, Fathy. M. Mustafa" Raman Amplifier Performance under New Wavelength Ranges". In Journal of Optical Communications, Vol. 37, Issue 1, pp. 9-21, March 2016.

[26] **Ashraf A.M. Khalaf** , Mostafa S.A. Mokadem, Khalil A. Ahmad, "Performance of LAN under Different Ethernet Wiring Standard and Different Frame Size ", In Proceeding of IEEE International Conference (ICACT2015), pp. 615- 624, July., 2015.

[27] **Ashraf A.M. Khalaf** , Mostafa. M. Ibrahim, Hesham F. A. Hamed, "Performance Study of Adaptive Filtering and Noise Cancellation of Artifacts in ECG Signals ", In Proceeding of IEEE International Conference (ICACT2015), pp. 442-447, July, 2015.

[28] **Ashraf A.M. Khalaf** , Mona S. Abd El-karim, Hesham F. A. Hamed, "Proposed Triple Hill Cipher Algorithm for Increasing the Security Level of Encrypted Binary Data and its Implementation Using FPGA", In Proceeding of IEEE International Conference (ICACT2015), pp. 382389, July., 2015.

[29] **Ashraf A.M. Khalaf** , Mona S. Abd El-karim, Hesham F. A. Hamed, " A Triple Hill Cipher Algorithm Proposed to Increase the Security of Encrypted Binary Data and its Implementation Using FPGA", ICACT Transactions on Advanced Communications Technology (TACT) Vol. 5, Issue 1, pp. 752-759, January 2016.

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[31] Mahmoud Khaled Abd-Ellah, Ali Ismail Awad, **Ashraf A. M. Khalaf** and Hesham F. A. Hamed, "Classification of Brain Tumor MRI Using a Kernel Support Vector Machine". In the proceeding of the 6th International Conference Well-being in the Information Society (WIS2016), Tampere, Finland, Publisher: Springer, pp.160-169, Sep. 16-18, 2016.
doi:10.1007/978-3-319-44672-1_13

[32] **Ashraf A. M. Khalaf**, Abdel-Rahman B. M. El-Daly, and Hesham F. A. Hamed, "Different Adaptive Beamforming Algorithms for Performance Investigation of Smart Antenna System". In the proceeding of the 24th International Conference on Software, Telecommunications and Computer Networks (SoftCOM 2016), Split, Croatia, Sep. 22-24, 2016.

[33] **Ashraf A. M. Khalaf**, Abdel-Rahman B. M. El-Daly, and Hesham F. A. Hamed, " Performance of Smart Antenna System Under Different SNR". In the proceeding of the 24th International Conference on Software, Telecommunications and Computer Networks (SoftCOM 2016), Split, Croatia, Sep. 22-24, 2016.

[34] Mahmoud Khaled Abd-Ellah, Ali Ismail Awad, **Ashraf A. M. Khalaf** and Hesham F. A. Hamed. "Design and Implementation of a Computer-Aided Diagnosis System for Brain Tumor Classification". In the proceeding of The 28th International Conference on Microelectronics (ICM2016) , Cairo, Egypt, pp. 73-76, Dec. 17-20, 2016.

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- [36] **Ashraf A. M. Khalaf**, Abdel-Rahman B. M. El-Daly, and Hesham F. A. Hamed, "A Hybrid NLMS/RLS Algorithm to Enhance the Beamforming Process of Smart Antenna Systems". Journal of Telecommunication, Electronic and Computer Engineering (JTEC) , Vol.10, Issue1-4, pp. 15- 22 (Selected from the 4th International Conference on Communication and Computer Engineering (ICOCOE2017), Penang, Malaysia, April. 18-20, 2017.)
- [37] **Ashraf A. M. Khalaf**, Ashraf Mahroos Said, M.M. Ibrahim, and Hesham F. A. Hamed, "Impact of Partial Update on Denoising Algorithms of ECG Signals." Journal of Telecommunication, Electronic and Computer Engineering (JTEC) , Vol.10, Issue1-8, pp. 129-134 (Selected from the 4th International Conference on Communication and Computer Engineering (ICOCOE2017), Penang, Malaysia, April. 18-20, 2017.)
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http://asrietsjournal.org/index.php/American_Scientific_Journal/article/view/4591
- [40] Ahmed A. Kabeel, Amr H Hussein, **Ashraf A.M. Khalaf**, Hesham F. A. Hamed, " A Utilization of Multiple Antenna Elements for Matched Filter Based Spectrum Sensing Performance Enhancement in Cognitive Radio System,." International Journal of Electronics and Communications (AEU), vol. 107 (2019) 98-109. <https://doi.org/10.1016/j.aeue.2019.05.024>
<https://www.sciencedirect.com/science/article/abs/pii/S1434841118331492?via%3Dihub>
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<http://journal.uad.ac.id/index.php/TELKOMNIKA/article/view/12230>
- [42] Osama F. Abdel Wahab, Aziza I. Hussein, Hesham F. A. Hamed, Hamdy M. Kelash, **Ashraf A.M. Khalaf** and Hanafy M. Ali, " Hiding data in images using steganography techniques with compression algorithms, " in TELKOMNIKA, Vol.17, No.3, June 2019, pp.1168~1175, DOI: 10.12928/TELKOMNIKA.v17i3.12230
http://journal.uad.ac.id/index.php/TELKOMNIKA/article/view/12230/pdf_1053
- [43] Khaled Abd-Ellah, M., Ismail Awad, A., **Khalaf, A. A. M.**, and Hamed, H. F. A, " A Review

on Brain Tumor Diagnosis from MRI Images: Practical Implications, Key Achievements, and Lessons Learned." In Magnetic Resonance Imaging, vol. 61 (2019) pp. 300-3018.

<https://doi.org/10.1016/j.mri.2019.05.028>

[44] Nazmi Mohammed, Abdulaziz Alsayyari, Ashraf A. M. Khalaf, Elsayed EL-Rabaie, Mahmoud M. Hamed, "High-sensitivity ultra-quality factor and remarkable compact blood components biomedical sensor based on nanocavity coupled photonic crystal, " in Results In Physics , Available online 28 June 20192211-3797/ © 2019 The Authors. Published by Elsevier B.V. This is an open access article under the CC BY-NC-ND license

(<http://creativecommons.org/licenses/by-nc-nd/4.0/>).

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[45] Ahmed Sedik, Heba M. Emara, Asmaa Hamad, Eman M. Shahin, Noha A. El.Hag, Ali Khalil, Fatma Ibrahim, Zeinab M. Elsherbeny, Mahmoud Elreefy, O. Zahran, Heba A. El.Khobby, Ghada M. El Banby, Mohamed Elwakeil, Walid El.Shafai, **Ashraf A. M. Khalaf**, Mohamed Rihan, Waleed Al.Nuaimy, Taha E. Taha, Mahmoud A. Attia, Adel S. El.Fishawy, El.Sayed M. El.Rabaie, Moawad I. Dessouky, Nagy W. Messiha, Ibrahim M. Eldokany, Turkey N. Alotaiby, Saleh A. Alshebeili, Fathi E. Abd El.Samie, " Efficient anomaly detection from medical signals and images," In International Journal of Speech Technology, Vol. 22, pp 739 - 767, Sep., 2019. <https://link.springer.com/content/pdf/10.1007%2Fs10772-019-09610-z.pdf>

[46] Mahmoud Khaled Abd-Ellah, **Ashraf A. M. Khalaf**, Ali Ismail Awad, and Hesham F. A. Hamed. " TPUAR-Net: Two Parallel U-Net with Asymmetric Residual-Based Deep Convolutional Neural Network for Brain Tumor Segmentation," In book: Image Analysis and Recognition:16th International Conference, ICIAR 2019, Waterloo, ON, Canada, August 27–29, 2019, Proceedings, Part II Edition: 1 Chapter: 9 Publisher: Springer International Publishing. DOI: [10.1007/978-3-030-27272-2_9](https://doi.org/10.1007/978-3-030-27272-2_9)

[47] Ahmed Sedik, **Ashraf A.M. KHALAF**, M.I. Dessouky, Fathi E. Abd El-Samie, Ghada El Banby " An Efficient Method For Image Forgery Detection Based on Trigonometric Transforms and Deep Learning ". In Multimedia Tools and Applications, March 2020 <https://doi.org/10.1007/s11042-019-08162-3>

[48] Mahmoud Khaled Abd-Ellah, Ali Ismail Awad, Hesham F. A. Hamed and **Ashraf A. M. Khalaf**, " Parallel Deep CNN Structure for Glioma Detection and Classification via Brain MRI Images," In the proceeding of the 31st IEEE International Conference on Microelectronics ICM2019, Dec. 15-18,2019, Cairo, Egypt <https://www.ieee-icm-2019.org/>

[49] Samia Abd El-Moneim, Shaimaa E. A. Aziz Hassan, Ahmed Sedik, M. A. Nassar, Moawad I Dessowky, Nabil Ismail, Adel S. El-Fishawy, Ghada El Banby, **Ashraf A.M. KHALAF**, and Fathi E. Abd El-Samie, "Effect of Reverberation Phenomena on Text- independent Speaker Recognition Based Deep Learning," in the First International Conference on Electronic Engineering in Menouf (ICEEM2019)At: Menouf, Egypt, pp.xx-xx, Dec.2019.

[50] Hager Khalil, Noha A. El-Hag, Ahmed Sedik, Walid El-Shafai, Abd El-Naser A. Mohamed, **Ashraf A.M. Khalaf**, Adel S. El-Fishawy, Ghada El Banby and Fathi E. Abd El-Samie, "

Classification of Diabetic Retinopathy types based on Convolution Neural Network (CNN)," in the First International Conference on Electronic Engineering in Menouf (ICEEM2019)At: Menouf, Egypt, pp.xx-xx, Dec.2019.

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[54] Mohammed Y. Abbass, Ki-Chul Kwonb, Nam Kim, Safey A. Abdelwahab, Fathi E. Abd El-Samie, and **Ashraf A.M. Khalaf**, "Efficient object tracking using hierarchical convolutional features model and correlation filters". Vis. Comput. (2020). (in press)

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[57] Mohammed Y. Abbass, Ki-Chul Kwonb, Nam Kim, Safey A. Abdelwahab, Fathi E. Abd El-Samie, and **Ashraf A.M. Khalaf**, " A survey on online learning for visual tracking ". Vis. Comput. (2020). (in press). <https://link.springer.com/article/10.1007/s00371-020-01848-y>

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References: Names and Contact Information of Ref. Professors.

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