



Curriculum Vitae

Name: Ashraf Mohamed Ali Hassan

Title: Associate Professor and Head of Electrical Engineering Department

Department: Electrical Engineering

Qualifications:

- Bachelor's Degree in Electronics and Communication Engineering
- Masters Degree in Electronics and Communication Engineering
- Ph.D in Electronics and Communication Engineering

Career Hierarchy:

- | | |
|------------------------|----------------|
| - Teaching Assistant, | Date: 1/2/2003 |
| - Assistant Lecturer, | Date: 1/2/2005 |
| - Lecturer, | Date: 1/7/2009 |
| - Associate Professor, | Date: 1/2/2020 |
| -Professor | Date: ---- |



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Scientific Activities

1: Membership of Professional Organizations and Scientific Societies:

- 1- Contribution and valuable efforts in the Scientific Conference of the Faculty of Engineering 2018 that was held at October University of Modern Sciences and Arts (MSA), Giza, Egypt, 25th of February, 2018.

2: Training Courses/workshops:

- 1- Attendance and meeting the standards required for completion of a training course in "use of technology in teaching" held from 10/11/2013 to 11/11/2013.
- 2- Attendance for Rubrics Uses, Design and Types Workshop and has completed Three Training Hours, that were held on January 10th , 2018.

3: Conferences, Seminars and Workshops:

- 1- Attendance_25th National Radio Science Conference ,NRSC ,18-20 March 2008.
- 2- Attendance International Conference on Electrical Engineering, ICEENG-6, May 27-29, 2008.



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4: Teaching Scopes:

- **Logical Circuits Design:** Combinational & Sequential Circuits
- **Mobile Communication:** 1G, 2G(GSM, DCS), 3G(UMTS), LTE.
- **Microelectronics:** Semiconductors, Diodes, Transistors and Operational Amplifiers
- **Electronic Measurements:** Digital Oscilloscope, Digital Multimeters
- **Automatic Control:** Reduction of block diagram, Transient Analysis, Steady State Error, stability, root locus, Bode plot.
- **Analog Communication:** Modulation, AM, FM, PM, ADC.
- **Digital Communication:** Noisy signals, Sampling process, PAM, PCM, Delta modulation, Matched Filter, Signal Space Representation, ASK, FSK, PSK.
- **Satellite communication:** Overview of satellite system, Orbits and Launching Methods, The Geostationary Orbit, Satellite Signals, Satellite Applications.
- **Data Communication:** Network Topologies, Categories, Transmission Modes, Analog and Digital Signals, Asynchronous Transmission and UART interface, Synchronous Transmission and USRT interface, Line Coding Techniques (NRZ, RZ, Manchester, HDB3, mLnB, etc), FDM, TDM, and WDM.
- **ICDL:** MS Windows, MS Office, HTML
- **Programming:** Pascal, C++, Visual Basic
- **Computer Applications:** Matlab, PSpice



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5: Scientific supervision:

Master Theses Supervision :

- 1- Enhancement of ECG by Hend fathey, faculty of engineering, Ain Shams University
- 2- IMPLEMENTATION OF BLUETOOTH-BASED INDOOR LOCATION TRACKING SYSTEM by Mohamed abdelwaheed, cairo university.
- 3- Suitable Design for Large-Scale Propagation Models to Mobile Communications in Urban-Area by Eman Gaber, Benha University.
- 4- LTE Planning by Mohamed Nabel, Ain Shams University.

Ph.D. Thesis Supervision :

- 1- Enhancement of LTE Design for Large-Scale Propagation Models to Mobile Communications in Urban-Area by Eman Gaber, Benha University.



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6: Awards and Certificates of Appreciation:

- 1- Awarded a certificate of attendance and meeting the standards required for completion of a training course in "use of technology in teaching" held from 10/11/2013 to 11/11/2013.
- 2- Awarded a certificate of appreciation for the supervision with the high performance and lasting contribution to graduation project with the title of " Vertical Handover Implementation and Application" and this project is the first on the level of the Egyptian universities.
- 3- Awarded a certificate from National Authority for Quality Assurance and Accreditation of Education for training attendance with title "Self Evaluation for Academics Leader Ship" held from 31/3/2013 to 2/4/2013.
- 4- Awarded a certificate of attendance for Rubrics Uses, Design and Types Workshop and has completed Three Training Hours, that were held on January 10th, 2018.
- 5- Awarded a certificate of Appreciation for contribution and valuable efforts in the Scientific Conference of the Faculty of Engineering 2018 that was held at October University of Modern Sciences and Arts (MSA), Giza, Egypt, 25th of February, 2018.
- 6- Awarded a certificate of participation in scientific webinar entitled: Research Performance H-index on 7 October 2021.

7: Peer reviewing of scientific research/ Projects:

Peer reviewing for graduation project with the title of " Vertical Handover Implementation and Application"

8: Other Activities:

NO



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Skills

- **Language Skills: English (Very good)**
- **Computer Skills: Excellent**
- **Presentation skills: Excellent**
- **Other skills: No**

Scientific Publications:

I: published Scientific Papers Extracted From the Masters and Ph.D Theses:

- 1- Amin Mohamed Nassar, Ashraf Mohamed Ali, "Multiple Sub-Filters Approach to Acoustic Echo Cancellation", The 25th National Radio Science Conference ,NRSC ,18-20 March 2008.
- 2- Amin Mohamed Nassar, Ashraf Mohamed Ali, "Decomposition of Long Adaptive Filter Approach to Acoustic Echo Cancellation and its Implementation Using FPGA", The 6th International Conference on Electrical Engineering, ICEENG-6, May 27-29, 2008.
- 3- Amin Mohamed Nassar, Ashraf Mohamed Ali, "Blind Source Separation Using Higher Moments of Generation", International Conference on Network Applications, Protocols and Services 2008 (NetApps 2008) November 21-22,2008 Executive Development Center,University Utra Malaysi.
- 4- Amin Mohamed Nassar, Ashraf Mohamed Ali, " A New Technique of Modeling Acoustic Echo and its Implementation Using FPGA", The 2008 Japan-China Work Shop on Frontier of Computer Science and Technology,27-28 Dec 2008,IEEE CONFERENCE.
- 5- Amin Mohamed Nassar, Ashraf Mohamed Ali, "Modified Decomposition Techniques for Modeling Echo and its Implementation Using FPGA", The Second International Conferences in Computer-Human Interactions[ACHI 2009] held in Cancun, Mexico, February1-7,2009.
- 6- Amin Mohamed Nassar, Ashraf Mohamed Ali, "A New Technique of Modeling Acoustic Echo with Blind Source Separation and Its Implementation Using FPGA", The11th International Conference on Advanced Communication Technology, February 15-18, 2009, Phoenix Park, Republic of Korea, IEEE CONFERENCE.



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II: Post-Doctoral Published Scientific Papers:

- 1- Eman Gaber Ahmed Mahmud, Hosam El den Elsaied, Ashraf Mohamed Ali Hassan, Amin Mohamed Nasser, "Evaluation for Suitable Large-Scale Propagation Models to Mobile Communications in Urban-Area", International Refereed Journal of Engineering and Science (IRJES), *Volume 2, Issue 2(February 2013), PP.38-44*.
- 2- Ashraf Mohamed Ali Hassan, "Analysis and Design of High Performance Ring Voltage Controlled Oscillator", International Journal of Computer Applications, *Volume 70– No.20, May 2013, pp.5-10*.
- 3- Ashraf Mohamed Ali Hassan, "A Novel Circuit Model of Small-Signal Amplifier using MOSFETs and BJT in Quadruple Darlington Configuration", International Journal of Computer Application, *Volume 81 – No.10, November 2013, pp.26-30*.
- 4- Ashraf Mohamed Ali Hassan, "Power Line Interference (PLI) Reduction in Electrocardiogram (ECG) Using Multiple Sub-Adaptive Filters Approach", International Journal of Scientific Engineering and Technology, *Volume No.3 Issue No.5, May 2014, pp : 694-697*.
- 5- Ashraf Mohamed Ali Hassan, "Enhancement of Designing The Smart Glove", International Journal of Applied Engineering Research, *Volume 10, Number 6 (2015), pp. 15915-15937*
- 6- Ashraf Mohamed Ali Hassan, "Enhancement of a GSM Based Control System", International Journal of Applied Engineering Research, *Volume 10, Number 9 (2015), pp. 21991-22000*
- 7- Ashraf Mohamed Ali Hassan, "Color Mixing Machine Using PLC and SCADA", WSEAS TRANSACTIONS on SYSTEMS and CONTROL, *Volume 10, November 2015, pp. 650-665*.
- 8- Ashraf Mohamed Ali Hassan, "Indoor Location Tracking System Using Neural Network Based on Bluetooth", International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT) – 2016, IEEE Conference. *PP.73-78*.
- 9- Mohamed Hassan Mohamed, Ashraf Mohamed Ali Hassan, N.M.Hussein Hassan, "Automatic Speech Annotation Based on Enhanced Wavelet Packets Best Tree Encoding (EWPBTE) Feature", International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT) – 2016, IEEE Conference, *PP.2611-2616*.



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- 10- Hend Fathy, Ashraf Mohamed, Eman Mohamed, Wagdy Anis, "Enhancement of ECG Signal", International Journal of Computer Applications, *Volume 145– No.7, August 2016, PP.12-16.*
- 11- Ashraf Mohamed Ali Hassan, Mohammed Mohammed Abo-Zahhad, "Efficient Compressive Sensing for ECG signals Using Ridgelet Transform", Wulfenia, *Volume 24– No.3, Mar. 2017, PP.343-356.*
- 12- Ashraf Mohamed Ali Hassan, "FPGA Realization for Baseline Wander Noise Cancellation of ECG Signals Using Wavelet Transform", International Journal of Computer Applications, *Volume 168– No.2, June 2017, PP.1-6.*
- 13- Eman Gaber Ahmed Mahmud, Hossam Labib, Ashraf Mohamed Ali Hassan and Amin Mohamed Nasser, "Adaptive Recourses Strategy with Multi-Service in Heterogeneous Networks", Journal of Electronics and Communication Engineering, *Volume 12, No. 4, Jul.-Aug. 2017, PP. 41-44.*
- 14- Ashraf Mohamed Ali Hassan, "ECG Signals Compression Using Walsh Hadamard Transform and its Efficient Realization Using FPGA", Wulfenia, *Volume 24– No.11, Nov. 2017, PP.115-125.*
- 15- Ashraf Mohamed Ali Hassan, "Enhancement in Implementation of Real-Time Adaptive Compressive Sensing for ECG Signals Using FPGA ", *Ciência e Técnica Vitivinícola, Volume 32– No.11, Nov. 2017, PP.35-42.*
- 16- Ashraf Mohamed Ali Hassan, Waleed EL Nahal, Hatem M. Zakaria, VLSI Architecture for Optimization Transform Technique based on Compression of ECG Signals ", International Journal of Computer Applications, *Volume 181– No.48, April 2019, PP.54-62.*
- 17- Hatem M. Zakaria, Ashraf Mohamed Ali Hassan, Waleed El Nahal, "Design of an Asynchronous Switch for Clock Domain Crossing Interfaces" , International Journal of Computer Applications, *Volume 181– No.48, April 2019, PP.63-70.*
- 18- Waleed El Nahal, Ashraf Mohamed Ali Hassan, Hatem M. Zakaria, " A Modified Hilbert Analysis Method to Improve Voice Stress Analysis Systems", International Journal of Computer Applications, *Volume 178– No.12, May 2019, PP.51-56.*
- 19- Ashraf Mohamed Ali Hassan, Waleed El Naheel, "New Trend of Compressed Sensing Technique Directed Toward Internet of Things", International Journal of Recent Advances in Multidisciplinary Research, *Volume 6– No.6, June 2019, PP.4923-4931.*