Hesham Fathi Ali Hamed

Former Dean of Faculty of Eng. and Professor of Electronics, Electrical Eng. Depart., Faculty of Eng., Minia University, El-Minia, Egypt.

- Member of National Communication and Electronics Engineering Promotion Committee
- Reviewer of Quality Assurance and Accreditation of Egyptian Higher Education.
- Member of the Research Council for Communications and Information Technology - Sector of the Qualitative Councils of the Scientific Research Academy.

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Personal Information

- Name : Hesham Fathi Ali Hamed
- Date of Birth : 06-10-1966.
- Place of Birth : Giza, Egypt
- Academic Rank : Professor
- Current Position: **Head of Biomedical Eng. Depart**, Minia University
- Nationality : Egyptian
- Marital Status : Married
- Address : Electrical Eng. Depart.,
Faculty of Eng.,Minia University
El-Minia, Egypt.
- Tel : 0111299543 – 01092083835
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Education

- **Post-Graduate 1993-1997** ***PhD in Analog Integrated Circuits Design***
  Texas A&M University (USA) and Minia University (Egypt) (Channel system between two universities)
  Supervisors: Prof. Dr. Aly E. Salama (Cairo University)
  Prof.Dr. Shreif Embabi (Texas A&M University)
- **1990-1993 M. Sc. in Electronic Circuits for Direct TV Receiver. Minia University**
  Supervisors: Dr. Ismail A. Hassan
- **Undergraduate 1984-1989 B.Sc. E.E. Minia University**

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Academic Positions

*** Dean of Faculty of Eng. Minia University from 15/12/2014-31/7/2018**

*** Vice Dean for Graduate Studies and Research from 25/2/2013-14/12/2014**

* **Head of Biomedical Eng. Depart**. 14/9/2012- 31/07/2013

* **Head of Electrical Eng. Depart**. 27/3/2011- 1/11/2011

* **Minia University, Professor**, 29/4/2008 – Present.

* **Minia High Institute of Eng. &Technology, Head of Electrical & Computer Eng. Depart.** 01/09/07-present (part time).

* **Ohio university (USA), Athens, OH, Visiting Professor**, 17/09/05 –31/08/2007

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* **Al-Khraj technical college, Suadia Arabia Associate Professor**,05/09/03-21/06/05.

* **Minia University, Associate Professor** , 24/03/03 –15/09/03.

* Minia University, Assistant Professor, 30/12/1997-24/3/2003.
* Bny Swife Industrial Education College, Assistant Professor, (part time), 1/2/1998-1/8/2003
.
* Al-Zahar University, Quena branch, Assistant Professor, (part time), 1/9/1999-1/7/2002.

* High Institute of Energy, Aswan, Assistant Professor, (part time), 1/9/1999-1/7/2002.

* High Institute of Eng., El-Asher from Ramadan, Assistant Professor, (part time), 1/2/1998-1/7/2000.

* Texas A&M University (USA), researcher Assistant, 16/3/1997-5/8/1997.

* Texas A&M University (USA), visiting scholar, 17/3/1995-16/3/1997.

* Minia University, Assistant Lecturer, 17/9/1989- 17/3/1995.

Interest Areas

* Low-Voltage Low-Power Analog and Digital Circuits VLSI Design.
* Current Mode Analog Circuits.
* FPAA Design.
* FPGA Applications.
* Low Voltage Low Power RF Circuit
* Nano- Scale technology Integrated Circuits Design.
* Biomedical Engineering (applications of Integrated Circuits and Image processing)

Professional Experience

- Member of National Communication and Electronics Engineering Promotion Committee (since Sept,2016)
- Reviewer of Quality Assurance and Accreditation of Egyptian Higher Education.
- Egyptian reviewer Community for Associate. Professors and Prof. promotion (since 2008).

- Member of the executive teams for several projects

- Project Manager for several projects such as :

1- Development of an independent desalination system using solar energy and wetting and dehumidification technology - Phase II

2- Establishing an integrated system for the production of electricity with the integration of biogas technology and solid fuel cell technology

3- Production of biofuels from biomass (Residues of agricultural waste) by rapid metabolic distillation

4- Treatment of cancer by high temperature resulting from the radio frequencies

5-Advanced Laboratory of Electrical Power Systems

- Evaluator for Science and Technology Development Fund (STDF) projects such as : Applied Investigations on Reclaimable Acoustic Panel Absorbers

- Minia University computer center unit.(since 2007-2011)

- From Jan., 1998 to present teach the following courses: Electrical Circuits(1),(2), Electronics(1), Electronics(2), Electronic Circuits (1), Electronic Circuits (2) , Logic Circuits, Digital Circuits, Electronic Measurements, VLSI Design , Active Circuits, Analog Circuits Design, Digital Circuits Design, and Electronic Circuits Testing labs and final year project FPGA.
- Form Sept.,1989 to March,1995 help to teach the following courses: Electronics(1), Electronics(2), Electronic Circuits (1), Electronic Circuits (2) , Logic Circuits, Digital Circuits, Electronic Measurements, Electronic Circuits Testing labs and final year project.
- From Jan., 1998 to Sept. 2003, work a General Supervisor for science club at Minia University.

Training Experience

A) Quality Assurance

1) Self-evaluation of higher education institutions.
2) Learning outcomes and curriculum maps - higher education
3) External auditing of higher education institutions.
4) Intensive external auditing course of higher education institutions.

Awards

- **Prize of international publications from Minia University,2017**
- **Prize of international publications from Minia University,2016.**
- **Prize of international publications from Minia University,2015.**
- **Prize of international publications from Minia University,2014.**
- The best Professor Prize from faculty of Eng., Minia University,2008.
- Scholarship for graduate studies (Ph.D) in the United State of America awarded by Minia University.
- First place of Electronic Circuit project during Egyptian universities week.2003.

- Certificate of Appreciation from Al Kharj college of technology,2005.

Academic Advisory (M.Sc. Ph. D. Theses)

Thesis under my Supervision (30 M. Sc.), (15 Ph.D.)

Memberships

* Member of Institute of Electrical and Electronics Engineers (IEEE).
• Member of Egyptian Engineering Community.

Publications

Books:

1- Rabab Ezz-Eldin, Magdy A. El-Moursy, **Hesham F. A. Hamed**, " Analysis and Design of Network on chip under High Process Variation", ***Springer International Publisher***, *USA*, December 2015.
ISBN: **978-3-319-25764-8 (Print)** **978-3-319-25766-2 (Online)**

Book Chapters:

2- Asmaa G. Seliem, Wael Abouelwafa, and **Hesham F. Hamed** "An Efficient PHSW-DC Algorithm for Solving Motif Finding Problem in TP53 Cancer Gene" ,Advances in Intelligent Systems and Computing, Springer International Publishing, ISBN 978-3-319-78753-4 (eBook), https://doi.org/10.1007/978-3-319-78753-4

3- Mahmoud Khaled Abd-Ellah, Ali Ismail Awad, Ashraf A. M. Khalaf, and **Hesham F. A. Hamed**," Classification of Brain Tumor MRIs Using a Kernel Support Vector Machine**,""** Building Sustainable Health Ecosystems," Springer Berlin Heidelberg, **Print ISBN:** 978-3-319-44671-4, PP.151-160(2016)
4- Ahmed Fathy,, Ibrahim F. Tarrad, **Hesham F. A. Hamed**,and Ali Ismail Awd , "Advanced Encryption Standard Algorithm: Issues and Implementation Aspects," "Advanced Machine Learning Technologies and Applications," Springer Berlin Heidelberg, **Print ISBN:** 978-3-642-35325-3,PP.516-523(2012)
5- *S Kaya, **Hesham F A Hamed** and S Laha in "**Tunable Analog and Reconfigurable Digital Circuits with Nanoscale DG-MOSFETs**", "Advances in Analog Circuits", Eds. J.Dabrowski & E. R. Weber, INTECH , Vienna, ISBN: 978-953-307-323-1, pp181-206(2011).*

Refereed Journals:

6- Ahmed A Kabeel, Amr H Hussein,Ashraf A.M. KHALAF, and **Hesham F. A. Hamed**,"High Gain UWB Antenna Element Design for Cognitive Radio Systems using Low Cost FR4 Substrate," American Scientific Research Journal for Engineering, Technology, and Sciences 51(1):56-65,January 2019

7- Mahmoud Hassan,Ahmed Nader Mohieldin,EL-Sayed A M Hasaneen, and **Hesham F. A. Hamed**,"A Hybrid NMOS/PMOS Capacitor-Less Low-Dropout Regulator with Fast Transient Response for SoC Applications" AEU - International Journal of Electronics and Communications, Vol. 96, Nov. 2018,pp. 207-218

8- Ashraf A.M. Khalaf, **Hesham F. A. Hamed**, Ashraf Mahroos Said, Mostafa," Impact of Partial Update on Denoising Algorithms of ECG Signals Ibrahim," Journal of Telecommunication, Electronic and Computer Engineering, Vol. 10 No. 1-8, February 2018

9- Mohamed Faisal Elrawy, Ali Ismail Awad, and **Hesham F. A. Hamed**, "Intrusion detection systems for IoT-based smart environments: a survey," Journal of Cloud Computing, vol. 7, p. 21, Dec 2018. https://doi.org/10.1186/s13677-018-0123-6.

10- Mahmoud Khaled Ab-Ellah, Ali Ismail Awad, Ashraf A. M. Khalaf, and **Hesham F. A. Hamed**, "Two phase multi-model automatic brain tumour diagnosis system from magnetic resonance images using convolutional neural networks," EURASIP Journal on Image and Video Processing, vol. 2018, pp. 1-10, 2018. https://doi.org/10.1186/s13640-018-0332-4

11- Kamel H Rahouma,Rabab H.Muhammad Aly,**Hesham F. A. Hamed**,Mona A. M. Abo-Eldahab." Heart Diseases Detection Based on Analysis and Diagnosis of Electrocardiogram Using Wavelet Transform and Prediction of Future Complications," Clinical Medicine Journal,Vol. 3, No. 3, 2017, pp. 15-29,November 2017

12- Kamel H Rahouma,Rabab H.Muhammad Aly, **Hesham F. A. Hamed**,Mona A. M. Abo-Eldahab." Analysis of Electrocardiogram for Heart Performance Diagnosis Based on Wavelet Transform and Prediction of Future Complications," Egyptian Computer Science Journal Volume 41 Issue 2, May 2017,pp.11-30

13- Sayed T. Muhammad , Magdy A. El-Moursy ,Ali A. El-Moursy, **Hesham F.A. Hamed**," **Architecture level analysis for process variation in synchronous and asynchronous Networks-on-Chip,"** Journal of Parallel and Distributed Computing Volume 102, April 2017, Pages 175–185

14- Ahmed Fawzy, M. Nady, Osama M. EL-ghandour , **and Hesham F.A. Hamed**," Optical switching in MEMS controlled ECTL containing nonlinear optical materials," International Journal of Scientific & Engineering Research,Volume 8, Issue 1, January 2017

15- Ahmed A. Ibrahim and Hesham F. A. Hamed, "Analysis of a compact size second order composite right/left handed coupled resonator band pass filter for

wireless applications", Journal of Engineering Science and Military Technologies, Volume (1) - Issue (1) pp. 7-11,- 2017

16- Rabab Ezz-Eldin, Magdy A. El-Moursy, **Hesham F. A. Hamed**, "Process Variation Delay and Congestion Aware Routing Algorithm for Asynchronous NoC Design," ***IEEE Transactions on Very Large Scale Integration Systems Journal***, vol.24, PP, 909 - 919, March, 2016.

17- Ahmed Magdy, Osama M. El-Ghandour, and **Hesham F. A. Hamed**, " Improvement of Adaptive Smart Concentric Circular Antenna Array Based Hybrid PSOGSA Optimizer, " (IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 7, No. 6,2016

18- Ahmed Magdy, Osama M. El-Ghandour, and **Hesham F. A. Hamed**, "Adaptive Beam-forming Optimization Based Hybrid PSOGSA Algorithm for Smart Antennas System," PIERS Proceedings, Prague, July 6-9, pp. 973-977, 2015.

19- Ahmed Fawzy, Osama M. El-Ghandour, **Hesham F. A. Hamed** "Diffraction Effects on a Dual External Cavity Tunable Laser ECTL Source", PIERS Proceedings, Prague, July 6-9, pp. 514-518, 2015

20- Ahmed Magdy, Osama M. EL-Ghandour, **Hesham F. A. Hamed** **"Performance Enhancement for Adaptive Beam-Forming Application Based Hybrid PSOGSA Algorithm," Journal of Electromagnetic Analysis and Applications** Vol.7 No.4, 2015.

21- Ahmed Fawzy, Osama M. El-Ghandour, **Hesham F. A. Hamed** "**Performance Analysis on a Dual External Cavity Tunable Laser ECTL Source",Journal of Electromagnetic Analysis and Applications** Vol.7 No.4,2015

22- Rabab Ezz-Eldin, Magdy A. El-Moursy, **Hesham F. A. Hamed**, "High Throughput Asynchronous NoC Design under High Process Variation," ***Integration, the VLSI Journal***, vol. 49, pp. 1–13, March 2015.

23- **Ahmed A. Ibrahim**, Mahmoud A. Abdalla, Adel B. Abdel-Rahman, Hesham F. A. Hamed "Compact MIMO Antenna with Optimized Mutual Coupling Reduction Using DGS", International Journal of Microwave and Wireless Technologies 6 (02), April 2014, 173-180

24- O. N. A. Esmail, E. T. El Shenawy, Adel A. Elbaset and **Hesham F. A. Hamed**, "Simple and accurate I V measuring circuit for photovoltaic applications," International Journal of Engineering Research & Technology, Vol. 3 (6), pp. 1141 –1147, 2014.

25- O. N. A. Esmail, E. T. El Shenawy, Adel A. Elbaset and **Hesham F. A. Hamed**, "Design and practical implementation of a simple data acquisition system for photovoltaic applications," Journal of Applied Sciences Research, Vol. 9 (8), pp. 4856 – 4866, 2013

26- Aly I Awad, ***Hesham F A Hamed*** "Reliable network traffic collection for network characterization and user Behavior", International Journal of Advanced Computer Science and Applications, (IJACSA), vol. 4, no. 2, March 2013

27- Ahmed Abd Elkader, Fathy A El Masery, ***Hesham F A Hamed*** "Implementation of Low Area and High Data Throughput CRC Design on FPGA", International Journal of Advanced Research in Computer Science and Electronics Engineering ,Novb.2012

28- Ahmed A Ibraim, Adel Bedeir, **Hesham F A Hamed** "Small Size Defected Ground Structure (DGS) Coupled Resonator", WSEAS TRANSACTIONS on COMMUNICATIONS", March, 2011.

29- *S Kaya, **Hesham F A Hamed** and D T Ting, "Improved Reconfigurability and Noise Margins in Threshold Logic Gates via Back-Gate Biasing in DGMOSFETs",**International Journal of Analog Integrated Circuits and Signal Processing**, vol.68,PP.101-109. July 2011.*

30- *S Kaya**, Hesham F A Hamed** and A Kulkarni,"Widely tunable low-power high linearity current-mode integrator built using DG-MOSFETs", **International Journal of Analog Integrated Circuits and Signal Processing ,Feb. 2010.***

31- ***Hesham F A Hamed**,S Kaya and J Starzyk "Use of nano-scale double-gate MOSFETs in low-power tunable current mode analog circuits **International Journal of Analog Integrated Circuits and Signal Processing**, vol.54, p.211. 2008.*

32- *S Kaya, **Hesham F A Hamed**, D T Ting and G Creech, "Reconfigurable Threshold Logic Gates with nano-scale DG-MOSFETs," Solid-State Electronics, vol. 51, pp. 1301, 2007.*

33- *S Kaya, **Hesham F A Hamed** and J Starzyk, "Low-Power Tunable Analog Circuit Blocks Based on Nanoscale Dual-Gate MOSFETs", IEEE Trans Circ. & Sys II, vol. 54,pp. 571, 2007.*

34- ***M. Nabil, Hesham. F. A. Hamed H. El-Samary, and F. Elgeldawy "Simple Low Voltage Micro Power Log Domain Filters for Hearing Aid Devices" Scientific Bulletin of The Faculty of Engineering Ain Shams University, Vol. 39, No.3, Sept. 30, 2004***

35- ***Hesham. F. A. Hamed, M. Hussien and F. Elgeldawy "Study The Switched Current Circuits Performance under Limitations and Design of an Accurate SI Current Memory Cell" Bulletin of The Faculty of Engineering, Minia University,Vol.21,No. 1,July, 2002.***

36- ***Hesham. F. A. Hamed, Ahmed El-Gaafary, and Mostafa S. A. El-hakeem "A New Wideband Low Input Resistance Current Conveyor and Its Application as a High Frequency Filter", Bulletin of The Faculty of Engineering, Minia University,Vol.20,No. 1,July, 2001.***

37- ***Hesham. F. A. Hamed, "Low Voltage CMOS Current –Mode Four-Quadrant Multipliers "; Journal of Engineering and Applied Science, Faculty of Engineering, Cairo University, Volume 48,No. 5,October, 2001,pp 973-988.***

38- ***Hesham F. A. Hamed, "Digitally Programmable BiCMOS Continuous Time***

Filter"; Journal of Engineering and Applied Science, Faculty of Engineering, Cairo University, Volume 47,No. 4,August 2000,pp 699-708.

39- ***Hesham. F. A. Hamed, S. K. Embabi, Aly E. Salama, A. Hussien, and A. ELGaafary "A Field Programmable Analog Array (FPAA) Using Switched-Current Techniques.", Bulletin of Faculty of Engineering, Minia University, Vol. 19,December 2000, pp 106-116.***

40- ***Hesham. F. A. Hamed, S. K. Embabi, Aly E. Salama, A. Hussien, and A. ELGaafary"Digitally Programmable Switched-Current Filters.", Bulletin of Faculty of Engineering, Minia University, Vol. 19,December 2000, pp 117-126.***

Conferences - Refereed Full Papers in Proceedings:

41- Lobna El-Fadali, El-Sayed Hasaneen, Ahmed Galal and **Hesham F A Hamed**," An Ultra-Low-Power, Low-Noise, Linear Preamplifier with Wide Dynamic Range for Electret Microphones," The 30th International Conference on Microelectronics (ICM 2018)

42- Bakr Hesham, El-Sayed Hasaneen and **Hesham F A Hamed**,"Comparative Study of FinFET versus HKMG Bulk CMOS in 16 nm Technology: Current Mirror Perspective," International Japan-Africa Conference on Electronics, Communications and Computations 2018

43- Fatma S. Ibrahim ,Mohamed N. Saad,Ashraf M. Said, and **Hesham F. A. Hamed,"** Haplotype Block Partitioning for NARAC dataset Using Interval Graph Modeling Algorithm," The 9th Cairo International Biomedical Engineering Conference (**CIBEC2018**)

44- Ahmed Elshamy,Aziza I. Hussein,**Hesham F. A. Hamed**,Mahmoud Abdelghany, and Hamdy M. Kelash, "Secure Strategy for Optical Image Encryption System Based on Amplitude Modulation, Phase Modulation and Modified Logistic Map," 5th International Conference on Computer Science, Engineering and Information Technology, December 2018

45- Kamel H Rahouma,Rabab H.Muhammad Aly, **Hesham F. A. Hamed**,Mona A. M. Abo-Eldahab,"Applying Machine Learning Techniques for the Prediction of Heart Future Complications," 47th International Conference on Science, Technology, Engineering and Management (ICSTEM) October 2018

46- Hader E. El-hmaily,Rabab Ezz-Eldin,A.I.A. Galal, and **Hesham F. A. Hamed**," GNRFET/MOSFET Conjunction Power Gating Structures," IEEE International Midwest Symposium on Circuits and Systems, August 2018

47- Ahmed Mohamed Fawzy,Osama Elghandour, and Hesham F. A. Hamed," Optical Coupling of 3D Silicon Micromirrors," 2018 IEEE 13th Annual International Conference on Nano/Micro Engineered and Molecular Systems (NEMS)

48- Hany A. Atallah,Mohamed A. El-Sawy,Adel B. Abdel-Rahman,Emad Tammam , and Hesham F. A. Hamed," Compact Design for Wireless Power Transmission Using U-Slot Resonators with Folded Coupled Lines," 35th NATIONAL RADIO SCIENCE CONFERENCE (NRSC 2018),

49- Rewaa Maher,Emad Tammam,A.I.A. Galal, and Hesham F. A. Hamed," Study of the intermodulation effects on the efficiency of the RF rectifier used for energy harvesting," 2017 Japan-Africa Conference on Electronics, Communications and Computers (JAC-ECC)

50- Mahmoud Hassan,Ahmed Nader Mohieldin,EL-Sayed A M Hasaneen, and **Hesham F. A. Hamed**," A hybrid NMOS/PMOS low-dropout regulator with fast transient response for SoC applications," 2017 29th International Conference on Microelectronics (ICM)

51- Sayed T. Muhammad; Ali A. El-Moursy; Magdy A. El-Moursy; **Hesham F. A. Hamed**,"System-level simulator for process variation influenced synchronous and asynchronous NoCs", 2017 30th IEEE International System-on-Chip Conference (SOCC),2017

52- Ahmed M. Elshamy; M. A. Abdelghany; Ahmad Q. Alhamad; **Hesham F. A. Hamed**; Hamdy M. Kelash; Aziza I. Hussein,"Secure Implementation for Video Streams Based on Fully and Permutation Encryption Techniques",2017 International Conference on Computer and Applications (ICCA),2017

53- Elsayed M. Elshamy; Hamdy M. Kelash; Aziza I. Hussein; **Hesham F. A. Hamed**; M. A. Abdelghany; M. A. Abdelghany, "Secure VoIP System Based on Biometric Voice Authentication and Nested Digital Cryptosystem using Chaotic Baker's map and Arnold's Cat Map Encryption",2017 International Conference on Computer and Applications (ICCA)2017

54- Ashraf A. M. Khalaf; Abdel-Rahman B. M. El-Daly; **Hesham F. A. Hamed**," Different adaptive beamforming algorithms for performance investigation of smart antenna system",2016 24th International Conference on Software, Telecommunications and Computer Networks (SoftCOM) ,2016

55- Ashraf A. M. Khalaf; Abdel-Rahman B. M. El-Daly; **Hesham F. A. Hamed**," Performance of smart antenna system under different SNR", 2016 24th International Conference on Software, Telecommunications and Computer Networks (SoftCOM), 2016

56- 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,"** 18th International Conference on Advanced Communication Technology (ICACT), pp: 752 – 759**,** 2016.

57- Mohammed Faisal Elrawy; Ali Ismail Awad; **Hesham F. A. Hamed**," **Flow-based features for a robust intrusion detection system targeting mobile traffic,"** 23rd International Conference on Telecommunications (ICT), pp 1 - 6, 2016

58- Wael Abou El-Wafa; Asmaa G. Seliem; **Hesham F. A. Hamed**,"**Hardware Acceleration of Smith-Waterman Algorithm for Short Read DNA Alignment Using FPGA."** IEEE 40th Annual Computer Software and Applications Conference (COMPSAC), Volume: 2 Pages: pp 604 - 605, 2016

59- Mahmoud Khaled Abd-Ellah; Ali Ismail Awad; Ashraf A. M. Khalaf; **Hesham F. A. Hamed**,"Design and implementation of a computer-aided diagnosis system for brain tumor classification",2016 28th International Conference on Microelectronics (ICM),2016

60- Asmaa G. Seliem; Wael Abou El-Wafa; A. I. A. Galal; **Hesham F. A. Hamed**," Parallel Smith-Waterman Algorithm Hardware Implementation for Ancestors and Offspring Gene Tracer", 2016 World Symposium on Computer Applications & Research (WSCAR),2016

61- Rewaa Maher; Emad Tammam; Ahmed I. Galal; **Hesham F. A. Hamed** "Design of a broadband planar antenna for RF energy harvesting", 2016 International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT) , 2016

62- Rabab Ezz-Eldin, Magdy A. El-Moursy, **Hesham F. A. Hamed**, " Novel Routing Algorithm for minimum on Delay with Process Variation and Congestion in Asynchronous NoC," ***Proceedings of the IEEE International Conference on High Performance and Communications***, pp. 411-416, August 2015.

63- Ashraf A. M. Khalaf; Mostafa. M. Ibrahim; **Hesham F. A. Hamed**," **Performance study of adaptive filtering and noise cancellation of artifacts in ECG signals,"** 17th International Conference on Advanced Communication Technology (ICACT), Pages: 394 - 401, 2015

64- Mostafa M. Bakry; Adel B. Abdel-Rahman; **Hesham F. A. Hamed**,"**Gain and bandwidth improvement of microstrip patch antenna using Complementary G-Shape Split Ring Resonator,"** 31st National Radio Science Conference (NRSC), pp 35 - 40,2014

65- Rabab Ezz-Eldin, Magdy A. El-Moursy, **Hesham F. A. Hamed**, "Asynchronous High Throughput NoC under High Process Variation," ***Proceedings of the IEEE International Conference on Electronics, Circuits, and Systems***, pp. 361-364, December 2013.

66- Rabab Ezz-Eldin, Magdy A. El-Moursy, **Hesham F. A. Hamed**, "High Throughput Asynchronous NoC Switch for High Process Variation," ***Proceedings of the IEEE International Design & Test Symposium***, pp. 16-18, December 2013.

67- Ahmed Fathy Abd Elfatah; Ibrahim F. Tarrad; Ali Ismail Awad; **Hesham F. A. Hamed**," **Optimized hardware implementation of the advanced encryption standard algorithm,"** 8th International Conference on Computer Engineering & Systems (ICCES), pp: 197 - 201, 2013

68- Ahmed Abd Elkader, Fathy A El Masery**, *Hesham F A Hamed*** "Implementation of Low Area and High Data Throughput CRC Design on

FPGA", International Journal of Advanced Research in Computer Science and Electronics Engineering ,Novb.2012

69- Soha Ahmed, **Hesham F A Hamed** "Low Voltage Low Power Logic circuits based on SE-MOSFET", 7th International Conference on Electrical Engineering, ICEENG 2012

70- Adel B. Abdel-Rahman, Adel Z. El Dein, **Hesham F. A. Hamed**, Ahmed A. Ibrahim, "Small Size Third Order Coupled Resonator Band-Pass Filter Using Capacitor Loaded Slots", IEEE APS, Middle East Conference on Antennas and Propagation (MECAP),Cairo, Egypt, 2011

71- Ahmed A Ibraim, Adel Bedeir, **Hesham F A Hamed** "Small Size Defected Ground Structure (DGS) Coupled Resonator", WSEAS Transaction on Communications, March, 2011

72- Ahmed A Ibraim, Adel Beder, **Hesham F A Hamed** "Design of small size coupled resonator band pass filters with capacitor loaded slot Using FDTD method**",** 28th National Radio Science Conference (NRSC), 2011

73- Adel B. Abdel-Rahman, Adel Z. El Dein, **Hesham F. A. Hamed**, Ahmed A. Ibrahim, "Small Size Third Order Coupled Resonator Band-Pass Filter Using Capacitor Loaded Slots", IEEE APS, Middle East Conference on Antennas and Propagation (MECAP),Cairo, Egypt, 2011

74- Adel B. Abdel-Rahman, Adel Z. El Dein, **Hesham F. A. Hamed**, Ahmed A.Ibrahim, "Small Size Band Stop Filters With Capacitor Loaded Slot Using FDTD Method ",International conference Of Energy Engineering (ICEE-2) Aswan,Egypt,2010

75- Ahmed H. M. Abolila; **Hesham F. A. Hamed**; El-Sayed A. M. Hasaneen, "**High performance wideband CMOS current conveyor for low voltage low power applications,"** The 10th IEEE International Symposium on Signal Processing and Information Technology,pp: 433 - 438, 2010.

76- Adel B. Abdel-Rahman, Adel Z. El Dein, **Hesham F. A. Hamed, Ahmed A.Ibrahim,** "Compact Band Pass Filters Using Capacitor Loaded Hairpin Slot", International conference Of Energy Engineering (ICEE-2) Aswan,Egypt,2010.

77- Adel B. Abdel-Rahman, Adel Z. El Dein, **Hesham F. A. Hamed**, Ahmed A.Ibrahim," Examples Of Cross Coupled Resonator Filters Synthesis Based On Optimization Technique", International conference Of Energy Engineering

(ICEE-2) Aswan,Egypt,2010

78- S Kaya and **Hesham F A Hamed**,"On Tunable Compact Analog Circuits with Nanoscale DG-MOSFETs", *Proc. Int.53rd IEEE Midwest Symposium on Circuits and Systems – MWSCAS'53* 1-4 August 2010, Seattle, WA, USA.

79- *Aliaa S. Ahmed,* ***Hesham. F. A. Hamed,*** *and E. A. M. Hasaneen,* ***"Low power Current-Mode Threshold Logic Gate Using Nano-scale Double Gate MOSFET", 7th International Conference on Electrical Engineering, ICEENG 2010.***

80- ***5.*** *A. S. M. Sayed,* ***Hesham. F. A. Hamed,*** *and E. A. M. Hasaneen,* ***"Low power Low Voltage and High Gain UWB Low Noise Amplifier in the 0.13 µm", 7th International Conference on Electrical Engineering, ICEENG 2010.***

81- K. *l-Latif,* ***Hesham. F. A. Hamed,*** *and E. A. M. Hasaneen,* " ***FPGA Implementation of the Pipelined Data Encryption Standard (DES) Based on Variable Time Data Permutation,"*** **The world Congress on Electronics and Electrical Engineering (WCEEENG'10),4-8 April, 2010,Luxor,Egypt**

82- S Kaya and **Hesham F A Hamed**,"On Tunable Compact Analog Circuits with Nanoscale DG-MOSFETs", *Proc. Int.53rd IEEE Midwest Symposium on Circuits andSystems – MWSCAS'53* 1-4 August 2010, Seattle, WA, USA.

83- K. *l-Latif, E. A. M. Hasaneen, and* ***Hesham. F. A. Hamed,*** *"****Improved DES Algorithm Based on Variable Time Data Permutation,****" International Conference for Advanced Computer Theory and Engineering (ICACTE), Vol.2,PP. 1381-1388,Cairo,Sept.,2009.*

84- **Hesham. F. A. Hamed**, "***Low Voltage Highly Linear Tunable BiCMOS OTA Using Parasitic Vertical Bipolar Transistor in CMOS Technology,***" ***The 20th International Conference on Microelectronics (ICM08), Sharjah, UAE Dec,2008***

85- **Hesham. F. A. Hamed**, "***Low Voltage Highly Linear Tunable BiCMOS OTA Using Parasitic Vertical Bipolar Transistor in CMOS Technology,***" ***The 20th International Conference on Microelectronics (ICM08), Sharjah, UAE Dec,2008***

86- **Hesham F A Hamed** and S Kaya, "Low-Voltage Tunable Double-Gate MOSFET Transconductor for VHF/UHF Continuous-Time Filters", *19th IEEE Int. Conf. on Microelectronics- ICM'07* 29-31 December 2007, Cairo Egypt.

87- Kaya and **Hesham F A Hamed** "Low-power tunable nanocircuits with DGMOSFETs for current sensing applications, S, *SPIE Prooceedings 6769 –*

Nanosensing: Materials, Devices, and Systems III, 9-12 September 2007, Boston, MA, USA

88- **Hesham F A Hamed**, S Kaya, "Low Voltage Programmable Double-Gate MOSFETs Current Mirror and its As Programmable-Gain Current Amplifier", *14th IEEE Int. Conference on Electronics, Circuits and Systems - ICECS'07*, 11-14 December, Marrakech, Morocco, 2007.
.

89- ***Hesham F. A. Hamed, and Ashraf A. Khalaf "Differential Voltage Current Conveyor and Fully Differential Current Conveyor in Standard CMOS Technology***

90- *S Kaya and **Hesham F A Hamed**, "Low-power tunable nanocircuits with DGMOSFETs for current sensing applications, Proceedings of SPIE, vol.6769, 67690D,2007.*

91- ***Hesham F. A. Hamed, and Ashraf A. Khalaf "Differential Voltage Current Conveyor and Fully Differential Current Conveyor in Standard CMOS Technology For Low Voltage Analog Circuits Applications," The 12th IEEE International Conference on Electronics, Circuits and Systems (ICECS2005). Dec., 2005.***

92- *F. A. ElMisery, **Hesham F. A. Hamed**, A. E. Salama, F. Al-Geldawy,"* ***Speaker Identification System Based on FPGA," The 12th IEEE International Conference on Electronics, Circuits and Systems (ICECS2005). Dec., 2005.***

93- ***Fathi A. Farag and Hesham. F. A. Hamed, "Low Voltage Low Power CMOS Current Conveyor Cells," International Computer Eng. Conf. (ICENCO'04) 2004.***

94- ***Hesham. F. A. Hamed, "A Low Voltage Digitally Programmable Current-Mode Filter," The 15th International Conference on Microelectronics (ICM2003), Cairo, Dec., 2003.***

95- ***Hesham. F. A. Hamed, "Low Voltage Low Power Highly Linear CCIIs and Its Applications," The 15th International Conference on Microelectronics (ICM2003),Cairo , Dec., 2003***

96- ***Hesham. F. A. Hamed," ±1.5 V supply, BiCMOS wideband DVCCII and its applications as programmable OTA and analog multiplier," The 15th International Conference on Microelectronics (ICM2003), Dec., 2003.***

97- *S. A. Saleh, **Hesham. F. A. Hamed**, H. Elsemary, and M. H. Azzam,* ***"Design of low-voltage low-power preamplifier for hearing aid devices," The 15th International Conference on Microelectronics (ICM2003), Dec., 2003.***

98- *F. A. ElMisery, A. H. Khaill, **Hesham. F. A. Hamed**, A. E. Salama* ***"A FPGA-Based HMM for Discrete Arabic Speech Recognition System", The 15th International Conference on Microelectronics (ICM2003), Dec., 2003.***

99- ***Hesham. F. A. Hamed,*** *and Ashraf A. Khalaf* ***" ± 1 V Supply Second Generation Current Conveyor in Standard CMOS Technology for Low Voltage Low Power Analog Circuits Applications," 46th IEEE Midwest Symposium on Circuits and System, Dec, 2003.***

100- *S. A. Saleh, H. Elsemary, A. Z. Mohamed, and* ***Hesham. F. A. Hamed,"Design of Piezoelectric Cantilever Microphone and Its MEMS-Acoustical Circuit for Hearing Aid Devices," 46th IEEE Midwest Symposium on Circuits and System, Dec, 2003.***

101- ***Hesham. F. A. Hamed, Fathi A. Farg, and Mostafa S. A. El-hakeem "A New Wideband BiCMOS Four-Quadrant Analog Multiplier", IEEE International Symposium on Circuits and Systems,(ISCAS 2002), Arizona, USA, Vol. 1, pp 729-732,May 2002 .***

102- ***Hesham. F. A. Hamed,*** *M. Nabil, H. El-Samary, and F. Elgeldawy* ***"A Low Voltage Ultra Low Power Analog Filters for Hearing Aid Instruments" Proceeding of First Annual Conference on Biomedical Engineering , December ,2002.***

103- ***Hesham. F. A. Hamed,*** *Ahmed El-Gaafary, and Mostafa S. A. El-hakeem* ***" A New Wideband Low Input Resistance Current Conveyor and Its Application as a High Frequency Filter", International Symposium on Signals Circuits and Systems, Romania, July 10-11,2001, pp 409-412).***

104- ***Hesham. F. A. Hamed,*** *Ahmed El-Gaafary, and Mostafa S. A. El-hakeem* ***"A New Differential Current Conveyor and its Application as a Four Quadrant Multiplier", The 8th IEEE International Conference on Electronics, Circuits and Systems (ICECS2001). Vol. II, pp 569-572, September 2-5, 2001, Malta.***

105- ***Hesham. F. A. Hamed, "Digitally Programmable BiCMOS Continuous Time Filter"; The 12th International Conference on Microelectronics (ICM2000), Tehran Oct.31-Nov. 2,2000, pp 87-90.***

106- ***Hesham. F. A. Hamed,*** *S. K. Embabi, Aly E. Salama, A. Hussien, and A. ELGaafary* ***"Low voltage Switched- Current Circuits", The 11th International Conference on Microelectronics, 22-24 November 1999, Kuwait.***

Conferences - Refereed Posters & Talks - Abstracts only:

107- S Kaya, D T-Y Ting and **Hesham F A Hamed**, "Highly Reconfigurable and Error Tolerant Threshold Logic Gates Based on Nanoscale DG-MOSFETs", *International Semiconductor Device Research Symposium – ISDRS*, 9-11Dec 2009, Washington DC, USA.

108- S Kaya and **Hesham F A Hamed**, "Design of Reconfigurable Threshold Logic Using DGMOSFETs", *12th Int.Workshop of Computational Electronics – IWCE'12*, 08-10 October,2007, Amherst, MA, USA

109- S Kaya, and **Hesham F A Hamed**, "Reconfigurable Threshold Logic Gates with nano-scale DG-MOSFETs", *Nano Giga Challenges in Electronics and Photonics*, 12-14 March 2007, Phoenix, AZ, USA

110- **Hesham F A Hamed**, S Kaya, and J Starzyk, "Compact Tunable Current-Mode Analog Circuits Using DG-MOSFETs",*2006 IEEE Int. SOI Conference*, 2-5 October, 2006, Niagara Falls, NY, USA.

111 -S Kaya, **Hesham F A Hamed** and J Starzyk, "Low-Power Tuneable Analog Circuit Blocks Based on Nanoscale Dual-Gate MOSFETs", 6th IEEE Conference on Nanotechnology – IEEE Nano 2006, 16-20 July, 2006, Cincinnati, OH, USA

References

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