CURRICULUM VITAE (CV)

Mohamed Atef

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Education:

- **2007 to 2010:** PhD, Vienna University of Technology, Institute of Electrodynamics, Microwave and Circuit Engineering.

PhD. Thesis entitle: Multilevel Transmission over Plastic Optical Fiber Using an Integrated Optical Receiver.

- **2002 to 2005:** M.Sc., Department of Electrical Engineering, Assiut University, Egypt.

M. Sc. Thesis entitle: Study of Direct Tunneling Current through Ultra-thin Gate Oxide MOSFET and its Effect on CMOS Circuits.

- **1995 to 2000:** B.Sc., Department of Electrical Engineering, Assiut University, Egypt.

Professional Experience:

- **Jan. 2020 up to now:** Associate Prof. at Electrical Engineering Department, Faculty of Engineering, United Arab Emirates University (UAEU), United Arab Emirates.
- **July 2021 (on leave):** Full Prof. at Department of Electrical Engineering, Assiut University, Egypt.
- **Jan. 2016 up to Jan. 2020:** Associate Prof. at Department of Electrical Engineering, Assiut University, Egypt.
- **September 2015 up to September 2017:** Visiting BiCASL Lab, School of Microelectronics, Shanghai Jiao Tong University.
- **September 2016 up to September 2017:** Adjunct teaching position, University of Michigan - Shanghai Jiao Tong University Joint Institute (UM-SJTU JI).
- **Dec. 2010 to Dec. 2015:** Assistant Prof. at Department of Electrical Engineering, Assiut University, Egypt.
- **Jan. 2011 up to Dec. 2012:** Post-Doctoral researcher at Vienna University of Technology, Institute of Electrodynamics, Microwave and Circuit Engineering.
- **2006 to 2007:** Researcher in Microelectronic Dept. Czech Technical University in Prague**.**
- **2005 to 2006:** Assistant Lecturer, Electrical Engineering Department, Faculty of Engineering, Assiut University, Assiut, Egypt**.**
- **2001 to 2005:** Teaching assistant, Electrical Engineering Department, Faculty of Engineering, Assiut University, Assiut, Egypt**.**
- **2001:2002:** Project Engineer at Wataniya Service, Egypt to increase the telephone capacity of the of Telecom Egypt, Matarya branch, Cairo**.**
- **2000 to 2001:** Engineer at EL-Ahlya company for repairing electronics devices, Sohag, Egypt.

Projects:

- **Research Assistant:** Developing optical receivers for future optical network project (FUTON) in 40nm CMOS technology (TU Wien + Lantiq), 2011-2012.
- **Research Assistant:** Developing fully integrated optical receivers for POF communication in 0.6 µm BiCMOS technology (TU Wien + A3PICS), 2007-2010.
- **Research Assistant:** Study and improving the optical characteristics of Quantum Dots (CVUT University), 2006.

Grants:

- **Project PI:** Wearable Cuffless System for Monitoring Blood Pressure Using an Integrated Optical Sensor, Research Start-Up, United Arab Emirates University, UAE, 2021-2023.
- **Project Coordinator:** Memorandum of Understanding for Cultural and Scientific Cooperation between

Shanghai Jiao Tong University, Shanghai (China) and Assiut University (EGYPT), 2020.
-Project PI: Capacity Building Grant: Biomedical Circuits and Systems Lab, Science & Technology Development Fund (STDF), 2020. (Prof. Reda Gharieb is the new PI)
- **Project Manager:** Design and Implementation of PV Power Station for Terrestrial Applications Including LED-Based Roadways Lighting with Smart Control System, Supporting of Excellence Students Projects (SESP), 2015.
- **Project Coordinator:** Establishing EDUTronics Labs in Assiut University, Information Technology Institute (ITI), 2015-2019.

- Establishing New Labs:

- Founding the VLSI LAB, Electrical Engineering Department, Assiut University, 2014. (Dr.Mohamed Abbas and **Dr. Mohamed Atef)**
- Founding the EDUTronics Labs, Electrical Engineering Department, Assiut University, The Information Technology Institute (ITI) fund, 2014-2018. (Prof. Dr. Mohamed Abo-Zahad, Dr.Mohamed Abbas, **Dr. Mohamed Atef)**
- Founding the Basic Circuits Lab, Electrical Engineering Department, Assiut University, KOREATECK fund, Phase II, 2018. (Dr.Gaber Elsaady, Dr.Mohammed Abdelgawad, Dr.Omar Abdelgaber, **Dr. Mohamed Atef)**
- Founding the Biomedical Lab, Electrical Engineering Department, Assiut University, KOREATECK fund, Phase III, 2019-2020. (Dr.Moumen Elmelegy, Dr.Reda Ragab, Dr.Wageh Gad Elsyed, **Dr. Mohamed Atef)**

Teaching Experiences:

	Course Name	University	Date
ELEC712	Advanced Circuits and Systems	United Arab Emirates University	FA2021
GENG315	Engineering Economics	United Arab Emirates University	SP2021
ELEC640	Directed Studies in Electrical Engineering	United Arab Emirates University	FA2020
ELEC305	Electric Circuits I	United Arab Emirates University	SP2021
ELEC580	Special Topics in Electronic Engineering	United Arab Emirates University	SP2021,SP2022
ECOM360	Fundamentals of Communication Systems	United Arab Emirates University	SP&FA2020
ECOM571	Communication Circuits	United Arab Emirates University	SP2020
MSc. Course	Biomedical Engineering	Assiut university, Egypt	2019
EE322	Electronics (3)	Assiut university, Egypt Sohag University, Egypt	2014, 2015
E125	Electronics (1)	Assiut university, Egypt Sohag University, Egypt	2014, 2015
EE425	Electrical Testing(B)	Assiut university, Egypt	2014
E126	Electrical Testing (1)	Assiut university, Egypt	2014, 2015
MSc. Elective Course	Optoelectronic Integrated Circuits	Assiut university, Egypt	2014, 2015
ES26044	Design of Analog Integrated Circuits	SJTU, School of Microelectronics, China	Sept. 2016
VE215	Introduction to Electric Circuits	University of Michigan - Shanghai Jiao Tong University Joint Institute (UM-SJTU JI), China	Sept. 2016

VE216	Introduction to Signals and Systems	University of Michigan - Shanghai Jiao Tong University Joint Institute (UM-SJTU JI), China	Feb. 2017
ES26048	Art of Layout in Analog Integrated Circuits	SJTU, School of Microelectronics, China	Feb. 2017
EE422	Electronics Circuits (2)	Assiut university, Egypt	Sept. 2018
EE322	Electronics Circuits (1)	Assiut university, Egypt	Jan. 2019

Research Interest:

- Integrated Circuits
- Bioelectronics
- Biomedical Circuits and Systems
- Optoelectronics
- Integrated Photodiodes
- Optical Transceivers

Journals Editorial Board:

- Guest Editor for the IEEE Transactions on Biomedical Circuits and Systems (TBioCAS) special issue on: BioCAS 2021, 2021.
- Guest Editor for the IEEE Transactions on Biomedical Circuits and Systems (TBioCAS) special issue on: International Symposium on Integrated Circuits and Systems (ISICAS), 2020.
-Associate Editor for the IEEE Transactions on Biomedical Circuits and Systems (TBioCAS), 2020- Present:
-Guest Editor for Journal of Sensors special issue on: Wearable and Implantable Sensory Systems for Brain Monitoring, Journal of Sensors, 2019-2020.
- 2019: Guest Co-Editor for the IEEE Transactions on Biomedical Circuits and Systems (TBioCAS) special issue on: Wearable and Flexible Integrated Sensors for Screening, Diagnostics, and Treatment (WFISEDIT'19), 2019.
- Far East Journal of Electronics and Communications (FJEC) Editorial board, 2013-2015.
- VLSI-Egypt Magazine Editorial Committee, 2012-2014.

Reviewer for Journals:

- IEEE Transactions on Industrial Electronics, (Impact factor=6.5)
- IEEE Transactions on Biomedical Circuits and Systems, (Impact factor=6.5)
- Sensors & Actuators, B: Chemical, (Impact factor=4.286)
- Journal of Biomedical and Health Informatics, (Impact factor=4.21)
- IEEE Electron Device Letters, (Impact factor=3.7)
- IEEE Access , (Impact factor=3.55)
- IEEE/OSA Journal of Lightwave Technology, (Impact factor=2.86)
- IEEE Transactions on Circuits and Systems I: Regular Papers, (Impact factor=3.93)
- IEEE Photonics Technology Letters, (Impact factor=1.9)
-IEEE Microwave and Wireless Components Letters, (Impact factor=1.88)
- International Journal of Circuit Theory and Applications - Wiley, (Impact factor=1.625)
- IEEE Transactions on Circuits and Systems II, (Impact factor=3.25)
- OSA/IEEE Journal of Optical Communications and Networking (JOCN), (Impact factor=1.3)
- IEEE Transactions on Very Large Scale Integration Systems (TVLSI), (Impact factor=1.1)
- IEE/IET Electronics Letters, (Impact factor=1.1)
- Microelectronics Journal (Impact factor=0.923)
- IET Circuits, Devices & Systems, (Impact factor=0.91)

Conferences Activities:

a- International Advisory Committee:

-The 2nd International Conference on Communication and Electronics Systems (ICCES 2017).

b-Technical Committee:

- Biomedical and life Science Circuits and Systems Technical Committee (BIOCAS TC)

c- Review Committee Member:

- International Symposium on Integrated Circuits and Systems (ISICAS 2020)
- International Symposium on Integrated Circuits and Systems (ISICAS 2020)
- The IEEE BioMedical Circuits and Systems (BioCAS 2016, 2017, 2018,2022).
- IEEE International Symposium on Circuits & Systems (ISCAS 2018, 2019,2020,2021,2022).
- 25th IEEE International Conference on Electronics Circuits and Systems (ICECS 2018).
- International Conference on Intellegent and Interactive Systems (IISA2016, 2017)
- Third International Symposium on Emerging Topics in Circuits and Systems (SET-CAS'17)
- Japan-Egypt Conference on Electronics, Communications and Computers (JEC-ECC 2016).
- International Conference on Sensors Engineering and Electronics Instrumental Advances (SEIA 2015)
- The 3rd International Conference on Consumer Electronics, Communications and Networks (CECNet 2013)
- International Symposium on Signals, Systems and Electronics (ISSSE 2012)

d- As a Reviewer:

- IEEE International Symposium on Circuits & Systems (ISCAS 2018, 2019, 2020).
- 25th IEEE International Conference on Electronics Circuits and Systems (ICECS 2018).
- The 13th IEEE BioMedical Circuits and Systems (BioCAS 2017)
- IEEE International Midwest Symposium on Circuits and Systems (MWSCAS 2016, 2019)
- The International Conference on Consumer Electronics, Communications and Networks (CECNet 2013, 2014)
- IEEE Applied Power Electronics Colloquium(IAPEC 2013)
- IEEE Business Engineering and Industrial Applications Colloquium 2013 (IEEE BEIAC 2013)
- IEEE Symposium on Humanities, Science & Engineering Research (SHUSER 2012)
- IEEE Symposium on Industrial Electronics and Applications (ISIEA 2012)
- IEEE Symposium on Industrial Electronics and Applications(ISIEA 2011)
- The International Conference on Electronic Devices, Systems & Applications (ICEDSA 2011 and 2012)
- IEEE Student Conference on Research and Development(SCORED 2011)
- The International Conference on Microelectronic (ICM 2010)

e-Session chair:

-IEEE International Symposium on Circuits & Systems (ISCAS 2020).

-International Conference on Renewable Energy: Generation and Applications (ICREGA'21), UAE, 2021 .

Awards:

- Assuit University Encouragement Award in the Engineering Sciences for 2019.
- The State Encouragement Award in Advanced Technological Sciences Serving the Engineering Sciences for 2018 from the Egyptian Academy of Scientific Research and Technology (ASRT).
- Best poster in E-MRS 2007 spring meeting.
- Egyptian Engineering Syndicate Award at 2002.

Citation indices:

- Scopus H-index: 12, Scopus Author ID: 25960546300
- Google Scholar H-index : 15
- ORICD ID: 0000-0002-3344-6127

Memberships:

- Senior Member IEEE since 2012
- PELS /SSCS/CASS Vice Chair, IEEE UAE Section (2021)
- PELS /SSCS/CASS Chair, IEEE UAE Section (2022)

Listed in :

- Who is Who in the World at 2012 and 2013.

Publications:

a- International Books:

1. **Mohamed Atef** and H. Zimmermann, "Optoelectronic Circuits in Nanometer CMOS Technology", Springer International Publishing Switzerland, ISSN 1437-0387, 2016.
2. **Mohamed Atef** and H. Zimmermann, Optical Communication over POF: Integrated Optical Receiver Technology, Springer International Publishing, Verlag, Berlin, Heidelberg, ISBN 978-3-642-30387-6, 2013.

b- Journals papers:

3. Mohamed Morsi, **Mohamed Atef,** Safwat M. Ramzy, Cost-effective schemes for minimizing the delay dispersion of the comparator in level-crossing ADCs applications, Microelectronics Journal, vol.121, pp.105384, 2022.
4. M.M.Elbadry, M.Y.Makkey, **M.Atef,** Design framework for inverter cascode transimpedance amplifier using G_m/I_D based PSO applying design equations, AEU-International Journal of Electronics and Communications, vol.142, pp.153985, Dec. 2021.
5. **Mohamed Atef**, Osman Hassan, Falah Awwad, Moien AB Khan, High Dynamic Range Photocurrent Sensory Circuit with a Multi-Transistor Background Light Cancellation Loop for Photoplethysmography Sensing, Electronics/MDPI, vol.10, no.22, pp.2769, Nov.2021.
6. Binghui Lin, Zhouchen Ma , **Mohamad Atef,** Liang Ying, Guoxing Wang, Low-Power High-Sensitivity Photoplethysmography Sensor for Wearable Health Monitoring System, IEEE Sensors Journal, vol.21, no.14, pp. 16141 - 16151, Feb. 2021.
7. Chao Wang, Xianliang Luo, **Mohamed Atef**, Pan Tang, A 32GHz 68dBΩ Low-Noise and Balance Operation Transimpedance Amplifier in 130 nm SiGe BiCMOS for Optical Receivers, IEICE Transaction, , vol. E103-A, no.12, pp.1408-1416, Dec. 2020.
8. Ahmed Atef, **Mohamed Atef,** Elsayed Esam M. Khaled, Mohamed Abbas, CMOS Transimpedance Amplifiers for Biomedical Applications: A Comparative Study, IEEE Circuits and Systems Magazine (CASM), vol.20, no.1, pp.12-31, Feb.2020.
9. Motaz M.Elbadry, Mostafa Y.Makkey, Mohamed Abdelgawad, **Mohamed Atef,** Design technique for regulated cascode transimpedance amplifier using Gm/ID methodology, Microelectronics Journal, vol. 95, pp. 104676, Jan. 2020.
10. Binghui Lin, **Mohamed Atef**, Guoxing Wang, 14.85 µW Analog Front-End for Photoplethysmography Acquisition with 142-dBΩ Gain and 64.2-pArms Noise, Sensors, vol.19, no.512, pp.1-13, Jan 2019.
11. Ahmed Atef, **Mohamed Atef,** Mohamed Abbas, Elsayed Esam M. Khaled, Guoxing Wang, Fully integrated wide dynamic range optical receiver for Near Infrared Spectroscopy, Microelectronics Journal, vol. 85, pp. 92-97, March 2019.
12. Yuting Hou , Jiali Qu , ZhenZhen Tian , **Mohamed Atef** , Khalil Yousef , Guoxing Wang Lian Young, A 61-nW Level-Crossing ADC with Adaptive Sampling for Biomedical Applications , IEEE Transactions on Circuits and Systems II: Express Briefs (TCAS II), vol.66, no.1, pp. 56 - 60, Jan. 2019.
13. Yuting Hou, Khalil Yousef, **Mohamed Atef**, Guoxing Wang, Yong Lian, A 1-to-1kHz, 4.2-to-544-nW, Multi-level Comparator Based Level-Crossing ADC for IoT Applications , TCAS II, vol.65, no.10, pp. 1390 - 1394, July 2018.

14. Guoxing Wang, **Mohamed Atef,** and Yong Lian, Towards a Continuous Noninvasive Cuffless Blood Pressure Monitoring System Using PPG: Systems and Circuits Review, IEEE Circuits and Systems Magazine (CASM), vol.18, no.3, pp.6-26, August 2018.
15. **Mohamed Atef,** Min Wang, Guoxing Wang, A Fully Integrated High-Sensitivity Wide Dynamic Range PPG Sensor With an Integrated Photodiode and an Automatic Dimming Control LED Driver, IEEE Sensors Journal , vol.18, no.2, pp. 652 – 659, Jan. 2018.
16. X. Luo, Y. Chen, **M. Atef,** G. Wang, A 44 Gbit/s Wide-dynamic Range and High-linearity Transimpedance Amplifier in 130 nm BiCMOS Technology, IEICE Transaction on Fundamentals of Electronics , Communications and Computer Sciences, E101A(2), pp. 438-440 , 2018.
17. **Mohamed Atef,** Transimpedance Amplifier with a Compression stage for Wide Dynamic Range Optical Applications, Microelectronics Journal, vol.46, pp. 593–597, 2015.
18. **M. Atef**, F. Aznar, S. Schidl, A. Polzer, W. Gaberl, H. Zimmermann, 8 Gbits/s inductorless transimpedance amplifier in 90 nm CMOS technology, Analog Integrated Circuits and Signal Processing, vol.79 ,no.1, pp.27-36, 2014.
19. **Mohamed Atef,** Integrated Photodiodes in Nanometer CMOS, Electrical and Electronics Engineering: An International Journal (ELELIJ), vol.3, no.2, pp.141-160, 2014. DOI : 10.14810/elelij.2014.3212
20. **M. Atef,** and H. Zimmermann, "Low-power 10Gb/s Inductorless Inverter Based Common-Drain Active Feedback Transimpedance Amplifier in 40nm CMOS", Analog Integrated Circuits and Signal Processing, vol. 76, no.3, pp 367-376, 2013.
21. **M. Atef,** A. Polzer, and H. Zimmermann, "Avalanche Double Photodiode in 40nm Standard CMOS Technology," IEEE Journal of Quantum Electronics, vol.49, no.3, pp.350-356, 2013.
22. **M. Atef,** A. Polzer, and H. Zimmermann, "High-Speed Photodiodes in 40nm Standard CMOS Technology," Sensors & Actuators: A. Physical, vol.193, pp.213-219, 2013.
23. **M. Atef,** Horst Zimmermann, "Optical Receiver Using Noise Cancelling with an Integrated Photodiode in 40nm CMOS Technology ," IEEE Transactions on Circuits and Systems I, vol.60,no.7, pp.1929-1936, 2013.
24. **M. Atef,** R. Swoboda, H. Zimmermann, " 250Mbit/s over 100m SI-POF with RCLED source using Integrated Post-Equalizer," Electronics Letters, vol.48, no.12, pp.718-720, 2012.
25. **M. Atef,** R. Swoboda, H. Zimmermann, "Real Time 1.25Gbit/s Transmission over 50m SI-POF Using a Green Laser Diode", IEEE Photonics Technology Letters,pp.1331-1333,2012.
26. **M. Atef,** R. Swoboda, H. Zimmermann , "1.25Gbit/s Over 50 m Step-Index Plastic Optical Fiber Using a Fully Integrated Optical Receiver With an Integrated Equalizer," IEEE/OSA Journal of Lightwave Technology , vol.30, no.1, pp.118-122, 2012.
27. **M. Atef**, R. Swoboda and H. Zimmermann, "1Gbit/s transmission over step-index plastic optical fiber using an optical receiver with an integrated equalizer," Journal of Optics Communications, vol. 284, Issue 21, pp.5153 – 5156,2011.
28. **M. Atef**, W. Gaberl, R. Swoboda and H. Zimmermann, "An Integrated Optical Receiver for Multilevel Data Communication over Large Core Step Index Plastic Optical Fiber," Journal of Analog Integrated Circuits and Signal Processing, vol. 67, no. 1, pp 3-9, 2011.
29. **M. Atef**, R. Swoboda, and H. Zimmermann, "170Mbit/s Multilevel Transmission over 115m Standard Step-Index Plastic Optical Fiber Using an Integrated Optical Receiver," Journal of Optics Communications, vol. 284, no. 1, pp. 191-194, 2010.
30. **M. Atef**, R. Swoboda and H. Zimmermann, "An optical receiver for eight-level data communication over step index plastic optical fiber," Journal of Optics Communications, vol. 283, Issue 11, pp.2350 – 2352, 2010.
31. **M. Atef**, R. Swoboda, H. Zimmermann, "Optical receiver for multicarrier modulation in short-reach communication," Electronics Letters, vol. 46, no. 3, pp. 225–226, 2010.
32. **M. Atef**, R. Swoboda, H. Zimmermann, "Giga-bit optical receiver for plastic optical fibre, Journal of Optics Communications," vol. 283, pp.391 – 395, 2010.

33. **M. Atef**, R. Swoboda, H. Zimmermann, "Optical receiver with large-area photodiode for multilevel modulation, Journal of Optical and Quantum Electronics," vol. 41, pp.131 – 135, 2009.
34. **M.Atef**, R. Swoboda, H. Zimmermann, "Optical receiver front-end for multilevel signaling," Electronics Letters, vol. 45,pp.121 -122, 2009.
35. P. Hazdra, J. Oswald, **M. Atef**, K. Kuldová, A. Hospodková, E. Hulicius and J. Pangrác, "InAs/GaAs quantum dot structures covered by InGaAs strain reducing layer characterized by photomodulated reflectance," Materials Science and Engineering: B, Volume 147, Issues 2-3, 15, pp.175-178, 2008.
36. **M.Atef**, P. Hazdra, V. Komarnitskyy, J. Oswald, K. Kuldová, et al., "Study of InAs/GaAs quantum dots grown by LP-MOVPE," Acta Metallurgica Slovaca Spec. Issue. 2007, vol. 13.
37. M.A.EL-Sayed, **M. Atef** ,"Study of tunneling current through ultra-thin gate oxide MOSFET and its effect on CMOS circuits," Journal of Engineering Sciences, vol. 33, no. 3,pp.929-941, 2005.

c- Conferences papers:

38. Khadiga Hares, **Mohamed Atef,** Usama Sayed and Safwat Ramzy , 4 ps Resolution Time-to-Digital Converter Implementation Utilizing LUTs , The 9th International Japan-Africa Conference on Electronics, Communications and Computations (JAC-ECC 2021), 2021. **(Accepted)**
39. Asma Wasfi, **Mohamed Atef,** Falah Awwad, First-Principles Modeling for DNA Bases via Monolayer MoS2 Sensor with a Nanopore, 2021 International Conference on Microelectronics (ICM), Egypt, pp. 220-223, Cairo, 2021.
40. Abeer Elsayed, **Mohamed Atef**, Mohamed Abdelgawad, 97 dB Dynamic Range CMOS Image Sensor Based on Diode Connected Load, The 36th National Radio Science Conference (NRSC2019), Port Said, pp.378-385, April 2019**.**
41. Hesham Ibrahem, **Mohamed Atef,** Elsayed Esam M. Khaled, Ultra-low Power High Sensitivity Photoplethysmography Sensor Based on Inverted Cascode Transimpedance Amplifier Using Quasi-Floating Gate, The 36th National Radio Science Conference (NRSC2019), Port Said, pp. 360-367, April 2019.
42. Ehab A. Hamed, **Mohamed Atef** , Mohamed Abbas, A Low Power Programmable Gain Integrated Front-End for Electromyogram Signal Sensing, Mixed Design of Integrated Circuits and System" (MIXDES), Gdynia, Poland, pp. 103-108, June 2018.
43. Yuting Hou, Jiali Qu, Zhenzhen Tian, **Mohamed Atef,** Khalil Yousef, Yong Lian, Guoxing Wang, 60-nW Level-Crossing ADC with Adaptive Sampling for Biomedical Applications", 2018 ISSCC Student Research Preview (SRP), 2018.
44. A. Atef, **M.Atef,** M. Abbas, E. M. Khaled, D. Cui, M. Sawan, G. Wang, Wide Dynamic Range Integrated Optical Receiver for Near Infrared Spectroscopy, 8th International IEEE EMBS Neural Engineering Conference, Shanghai, China, May 2017.
45. Zhengnan Yan, **Mohamed Atef,** Guoxing Wang, Donghong Cui, Mohamad Sawan, Low-Noise 8-Channels Chopper-Stabilized EEG Acquisition System, , 8th International IEEE EMBS Neural Engineering Conference, Shanghai, China, May 2017.
46. Binghui Lin, **Mohamed Atef,** and Guoxing Wang, A Low-Power High-Sensitivity Analog Front-End for PPG Sensor, the 39th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC'17), Jeju Island, South Korea, pp. 861 – 864, July, 2017.
47. Ehab A. Hamed, **Mohamed Atef,** Mohamed Abbas, An Ultralow-power High-gain Biopotential Amplifier for Electromyogram Signal Recording, Japan-Africa Conference on Electronics, Communications and Computers (JAC-ECC), pp.33-66, Dec., 2017 **.**
48. Zhengnan Yan, **Mohamed Atef** , and Guoxing Wang, Low-Noise High Input Impedance 8-Channels Chopper-Stabilized EEG Acquisition System, the 30th international IEEE System on Chip Conference (SOCC 2017), Munich, Germany, pp. 51 – 55, 2017**.**
49. Min Wang, **Mohamed Atef**, Qingsong Xie, Yong Lian, Guoxing Wang, Live Demonstration: A Ring-type Blood Pressure Monitoring System Based on Photoplesthygraphy, 2017 IEEE Biomedical Circuits and Systems Conference (BioCAS 2017), Torino, Italy, pp. 1-1, 2017.

50. Ahmed Atef , **Mohamed Atef** , Mohamed Abbas, and Elsayed Esam M. Khaled,1.44 mW and 60 dB Dynamic Range Optical Receiver for Near Infrared Spectroscopy," The 28nd International Conference on Microelectronic (ICM2016), Cairo, Egypt, pp.21-24, December, 2016.
51. Baizhong Zhou, Xunhua Guo, **Mohamed Atef** and Guoxing Wang, Hall Sensor System Design and Modeling for Current-Measurement in Power Meters," The 28nd International Conference on Microelectronic (ICM2016), Cairo, Egypt, pp. 49-52, December, 2016.
52. Bo liang, Kefeng Duan, Qingsong Xie, **Mohamed Atef,** Zhiliang Qian, Guoxing Wang and Yong Lian, Live Demonstration: A Support Vector Machine Based Hardware Platform for Blood Pressure Prediction, 2016 IEEE Biomedical Circuits and Systems Conference (BioCAS 2016), pp.130-131, October, 2016.
53. **Mohamed Atef**, Li Xiyan, Guoxing Wang, Yong Lian, PTT Based Continuous Time Non-invasive Blood Pressure System, IEEE International Midwest Symposium on Circuits and Systems (MWSCAS), pp.333-336, October, 2016.
54. Diaa Abd-elrahman; **Mohamed Atef**, Guoxing Wang ,10 Gb/s 1.95 mW Active Cascode Transimpedance Amplifier for High Speed Optical Receivers , IEEE International Midwest Symposium on Circuits and Systems (MWSCAS), pp.775-778, October, 2016.
55. Kefeng Duan, Zhiliang Qian, **Mohamed Atef**, Guoxing Wang, A Feature Exploration Methodology for Learning Based Cuffless Blood Pressure Measurement using Photoplethysmography, IEEE 38th Annual International Conference of the Engineering, in Medicine and Biology Society (EMBC), pp. 6385- 6388 , October, 2016.
56. Ahmed Atef , **Mohamed Atef**, Mohamed Abbas , Elsayed Esam, High-Sensitivity Regulated Inverter Cascode Transimpedance Amplifier for Near Infrared Spectroscopy, Fourth International Japan-Egypt Conference on Electronics, Communications and Computers (JEC-ECC), pp. 103- 106, May, 2016.
57. Ehab A. Hamed, **Mohamed Atef**, Mohamed Abbas, R. R. Gharieb ,Transferring Electromyogram Signal between Limbs, Fourth International Japan-Egypt Conference on Electronics, Communications and Computers (JEC-ECC), pp.141-144, May, 2016 **.**
58. **Mohamed Atef**, Ahmed Atef, Mohamed Abbas, "Low-Power Transimpedance Amplifier for Near Infrared Spectroscopy", IEEE International Symposium on Circuits and Systems (ISCAS), pp. 2423-2426, May, 2016.
59. Diaa Abd-Elrahman, **Mohamed Atef,** Mohamed Abbas, Mohamed Abdelgawad, Low Power Transimpedance Amplifier Using Current Reuse with Dual Feedback, 2015 IEEE Intl. Conference on Electronics, Circuits, & Systems (ICECS 2015), Cairo, pp.244-247, December, 2015.
60. **Mohamed Atef,** Regulated Cascode Transimpedance Amplifier Based on a Cascode Inverter Local Feedback, The 32st National Radio Science Conference (NRSC2015), Cairo, pp.360-367 2015.
61. **Mohamed Atef,** Ehab A. Hamed, Abdu-Allah Mahfouz, Implementation of Optical Distance Measurement Using Correlation-Based and Time Stretching Technique on Digital Signal Controller, The 32st National Radio Science Conference (NRSC2015), Cairo, pp.344-351, 2015.
62. Diaa Abd-elrahman, **Mohamed Atef,** Mohamed Abbas, and Mohamed Abdelgawad, Current-Reuse Transimpedance Amplifier with Active Inductor, International Symposium on Signals, Circuits and Systems (ISSCS), Lasi, pp.1-4, 2015.
63. **Mohamed Atef,** High gain transimpedance amplifier with current mirror load, 21st International Conference on Mixed Design of Integrated Circuits & Systems (MIXDES), pp.220-223, Poland, 2014.
64. **M. Atef,** D. Abd-elrahman, 2.5 Gbit/s compact transimpedance amplifier using active inductor in 130nm CMOS technology, 21st International Conference on Mixed Design of Integrated Circuits & Systems (MIXDES), pp.103-107, Poland, 2014.
65. **Mohamed Atef,** Horst Zimmermann, Integrated equalizer for high-speed short-distance optical communication link, The 31st National Radio Science Conference (NRSC2014), pp.334-340, Cairo, 2014.
66. **Mohamed Atef,** Integrated Photodiodes in Nanometer CMOS, Second International Conference on Emerging Trends in Electrical, Electronics & Instrumentation Engineering (EEI 2014), Dubai, UAE, pp.329-348, April 2014.

67. **M. Atef**, Hong Chen and H. Zimmermann, "10Gb/s Inverter Based Cascode Transimpedance Amplifier in 40nm CMOS Technology ", 16th IEEE Symposium on Design and Diagnostics of Electronic Circuits and Systems (DDECS2013), Karlovy Vary, Czech Republic, pp.72-75, 2013.
68. **M. Atef** and H. Zimmermann, "10Gbit/s 2mW Inductorless Transimpedance Amplifier ", IEEE International Symposium on Circuits and Systems (ISCAS2012), Seoul, South Korea, pp. 1728 -1731, 2012.
69. **M. Atef** and H. Zimmermann, " 2.5Gbit/s Transimpedance Amplifier Using Noise Cancelling for Optical Receivers ", IEEE International Symposium on Circuits and Systems (ISCAS2012),Seoul, South Korea, pp.1740 - 1743, 2012.
70. **M. Atef**, R. Swoboda and H. Zimmermann, "A Gigabit Fully Integrated Plastic Optical Fiber Receiver for a RCLED Source," 15th IEEE Symposium on Design and Diagnostics of Electronic Circuits and Systems (DDECS2012), Talline, Estonia, pp.74-78, 2012.
71. **M. Atef**, R. Swoboda, H. Zimmermann, "An Integrated Optical Receiver for 2.5Gbit/s Using 4-PAM Signaling ,"The 22nd International Conference on Microelectronic (ICM2010), Cairo, Egypt, pp.76-79,2010.
72. **M. Atef**, R. Swoboda, H. Zimmermann," Gigabit Transmission over PMMA Step-Index Plastic Optical Fiber Using an Optical Receiver for Multilevel Communication," The 36th European European Conference on Optical Communication (ECOC 2010),Torino, Italy, pp. 1351-1353, 2010.
73. **M. Atef**, W. Gaberl, R. Swoboda, H. Zimmermann," An Integrated Optical Receiver for Multilevel Data Communication over Plastic Optical Fiber," 27th NORCHIP 2009, Trondheim, Norway, pp.1-4, 2009.
74. **M. Atef**, W. Gaberl, R. Swoboda, H. Zimmermann," 4-PAM Monolithic Optical Receiver," Optics in Computing, Vienna, pp. 48-52, 2009.
75. **M. Atef**, W. Gaberl, R. Swoboda, H. Zimmermann," Multilevel Signaling Optical Receiver for High-Speed Transmission over Large-Core Step-Index Plastic Optical Fibre," Austrochip 2009, Graz , pp. 1-4, 2009.
76. **M. Atef**, R. Swoboda, H. Zimmermann, "A Front-End Optical Receiver for Multi-Level Data Transmission," Informationstagung Mikroelektronik (ME2008), pp. 246-249,2008.
77. **M. Atef**, R. Swoboda, H. Zimmermann, "An Automatic Gain Control Front-End Optical Receiver for Multi-Level Data Transmission," 26th Norchip Conference, Tallinn, Estonia, pp. 57-60, 2008.
78. **M. Atef** "Electronic States Simulation of InAs/GaAs Quantum Dots from MOVPE, " Prague, CTU, Faculty of Electrical Engineering, pp. EI3-1-EI3-5, 2007.
79. **M. Atef** , P. Hazdra, V. Komarnitskyy, J. Oswald, K. Kuldová, et al., "Simulation of Electronic States in InAs/GaAs Quantum Dots," In Electronic Devices and Systems - IMAPS CS International Conference 2007. Brno: Vysoké učení technické v Brně, pp. 11-16, 2007.
80. P. Hazdra, **M. Atef**, V. Komarnitskyy, J. Oswald, K. Kuldová, et al."Study of InAs/GaAs Quantum Dots Grown by LP-MOVPE," Int. Conf. NANO´07. Brno: Česká společnost pro nové materiály a technologie, pp. 36, 2007.
81. P. Hazdra, J. Oswald, **M. Atef**, J. Voves, K. Kuldová, et al." InAs/GaAs quantum dot structures covered by InGaAs strain reducing layer characterised by photomodulated reflectance," In E-MRS Spring Meeting 2007 ,Strasbourg: E-MRS, pp. 7-15, 2007.
82. P.Hazdra, **M. Atef,** V. Komarnitskyy,J. Oswald, K.Kuldova,- et al., "Characterisation and Simulation of Electronic States in MOVPE Grown InAs/GaAs Quantum Dots", In: Proceedings of Workshop 2008. Praha: Czech Technical University in Prague, vol. A, pp. 208-209, 2008.