

 <p>Delta University for Science and Technology جامعة الدلتا للعلوم والتكنولوجيا</p>	CV	
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Personal Information

• Name:	Adel Zaghloul Mahmoud Hassan
• Academic Position:	Associate Professor in electronics and electrical communications,
• Administrative Position:	-
Faculty	Faculty of Engineering - Zagazig University, Egypt, (currently, delta university – college of Engineering – Egypt)from 1/9/2019
• Department:	Electronics and communications
• Major Specialty:	electronics and communications
• Minor Specialty:	communications (optical communications)
• Current position:	Associate Professor
• Office address:	
• Work phone:	
• Edu-Mail:	adel6730101@yahoo.com

Academic Positions

Demonstrator			
Organization	Country	From	To
Assistant researcher (Building Research Center)	Egypt	24/4/1985	30/12/1986
Zagazig university	Egypt	31/12/1986	16/6/1991
Assistant Lecturer			
Organization	Country	From	To
Zagazig university	Egypt	17/6/1991	16/9/1996
Assistant Professor			
Organization	Country	From	To
Zagaxig university	Egypt	17/9/1996	23/12/2013
Associate Professor			
Organization	Country	From	To
Zagazig university	Egypt	24 /12 /2013	Until now
Professor			
Organization	Country	From	To
-	-	-	-

Publications

1. Adel Zaghloul and Ahmed A. Elfadl , “**A Simple Analysis Approach To Optical Rib Waveguides**” 16th National Radio Science Conference, NRSC’99, Ain Shams University. Egypt Feb. 23-25 1999, Cairo, Egypt
2. Adel Zaghloul and Ahmed A. Elfadl , “**Two Mixed Methods for the Analysis of a Multimode Optical Rib Waveguide**” 17th National Radio Science Conference, NRSC’2000, Minufiya University, Feb. 22-24, 2000, Minufiya Egypt.
3. Adel Zaghloul , " “**Optical Directional Coupler as a Bandpass Filter**" Mansoura Third International Engineering Conference. Mansoura University, 11-13 April 2000, El-Mansoura, Egypt,
- 4- Adel Zaghloul , “**A Simple Analysis of a Multimode Three Optical Slab Waveguides Directional Coupler**” 19 Th National Radio Science Conference, NRSC’2002, Faculty of Engineering, Alexandria University, March 19-21, 2002, Alexandria, Egypt.
Note; it accepted from, Yemeni scientific research foundation science conference 11-13 Oct. 2001-Taiz El-Yemeni
- 5- Adel Zaghloul , “**Design of Metal Electrodes with Six Important Electrooptic Materials,**” 19 Th National Radio Science Conference, NRSC’2002, Faculty of Engineering, Alexandria University, March 19-21, 2002, Alex. Egypt .
- 6- Adel Zaghloul, ” **Design of Coplanar Electrodes with Maximum Index Change of the Electrooptic Materials,**” 3ed International conference on electrical engineering, Military Technical College, Kobry ElKobbah, Cairo, Egypt, ICEENG 2002
Also, Minufiya Journal of Electronic Engineering Research Vol. 1 2-No.2, .July 2002
- 7- Adel Zaghloul , “**Orientation Dependence of Electrooptic Traveling Wave Modulator**” Minufiya Journal of Electronic Engineering Research Vol. 13- No. I, .Jan.2003
- 8- Adel Zaghloul, “**Voltage Controlled-Bandwidth Electrooptic Transverse Phase Modulator with Parallel Electrodes**” Mansoura Engineering Journal Vol.30, No.3, Sep.2005, pp.E1-12.
- 9- Adel Zaghloul, “**Voltage Controlled Directional Coupler with Parallel Electrodes**” Mansoura Engineering Journal Vol.30, No.3, Sep.2005, pp.E13-21.
- 10-Adel Zaghloul, “**Modified Analysis of Traveling Wave Modulator and Active Directional Coupler With Coplanar Electrodes**” 23th National Radio Science Conference, NRSC’2006, Minufiya University. Egypt March, 14-16, 2006 Minufiya Egypt.
- 11-Adel Zaghloul , **Analysis of Traveling Wave Modulator and Active Directional Coupler With Coplanar Electrodes as Isotropic Homogeneous Devices**” Ain shams Journal of Engineering Research Vol. 41-No.4, .December 2006
- 12-Adel Zaghloul , “**Directional Coupler as an Electrooptically Controlled Wavelength Division Demultiplexer**" 24th National Radio Science Conference, NRSC’2007, Ain shams University. Egypt March, 13-15, 2007 Cairo- Egypt.
Also, Ain shams Journal of Engineering Research Vol. 41-No.4, .December 2006
- 13-Adel Zaghloul, “**Analysis of Diagonal Anisotropic Electrooptic Rectangular Waveguide as an Isotropic Waveguide**" 24th National Radio Science Conference, NRSC’2007, Ain shams University. Egypt March, 13-15, 2007 Cairo- Egypt.
- 14- M. I. Abdalla , M. M. Fouad , KH. Fawzy, A. Zaghloul and R. Ahmed , " **Speech Compression Techniques Based on Gaussian Mixture Model and Wavelet Analysis,** " Ain Shams Journal Electrical Eng. (ASJEE), Vol.1, pp.13-27, June 2009.
- 15- Adel Zaghloul, Rasheed El-Awady, Sayed Kamel and Sohair Mahfouz, “ **Simplified analysis and applications of single mode active directional coupler with parallel electrodes,**" Minufiya Journal of Electronic Engineering Research MJEER, Vol.19, No.1&2, January –July 2009
- 16- Adel Zaghloul A. A. Al-Huthari and F. Mabrouk, " **Performance of Doped Material Single Mode Fiber With Matched Cladding**" Journal of Hadhramout University, Vol. 8,

- 17- M.SH. M. Ismail , M.A.Gahean ,[A.Zaghloul](#) and M.A.Nassar, "**Implementation of Digital Temperature System in Research Reactors using Microcontroller,**" Arab Journal of Nuclear Science and Applications, Vol.44, No.1, pp.295-303, January 2011
- 18-[Adel Zaghloul](#) and Abdulbaqi Ali Al-Huthari , "**Optimum Position of the Electrooptic Push-Pull Match Zehnder Modulator With Respect to the Metal Electrodes,**" Journal of Hadhramout University, Vol.8, Issue No. 2, pp 189-196, Dec. 2011
- 19- Walied W. Souror, Ali E. Taki el-deen, Rasheed Mokhtar el-awady Ahmed and [Adel Zaghloul Mahmoud](#) , "**An Implementation of High Security and High Throughput Triple Blowfish Cryptography Algorithm,**" International Journal of Research and Reviews in Signal Acquisition and Processing (IJRRSAP), Vol. 2, No. 1, pp.50-55, England Kingdome, March 2012.
- 20- [Adel Zaghloul](#) , "**Analysis of Optical Fiber by Using SEIM with VM Application to Optical Fiber Directional Coupler,**" 29 th National Radio Science Conference, RSC'2012, Faculty of Engineering, Cairo University, Egypt, pp. 619-625, April 10-12, 2012.
- 21- [Adel Zaghloul](#) , "**Derivation of Analytical Closed Expression for the Normalized Propagation Constant of the Multimode Buried Rectangular Optical Waveguide**" International Journal of Future Generation Communication and Networking (IJFGCN), Vol.6, No.4, Aug. 2013
- 22-Nada Alaa, Walid S. El-Deeb and [Adel Zaghloul](#) , "**A Comparative Study of the SAR Reduction Techniques for the Effects of Electromagnetic Waves on Human Head,**" *British Journal of Applied Science & Technology*, 20(2): pp.1-13, 2017; Article no.BJAST.32619
- 23- [Adel Zaghloul](#), AbdelHamid Shalaan and Asmaa M.S.A Harb , "**Availability of FSO Link in Cairo, Egypt, From Cairo Tower to the Great Pyramid, (11.5 km long),**" International Journal of Modern Communication Technologies and Research (IJMCTR) , ISSN: 2321- 08569 (O) , 2454-4698 (P), Volume 5-, Issue-,5, May 2017
- 24- Maha Hamdy Noshay , Sayed A. Nouh and [Adel Zaghloul Mahmoud](#) "**Performance Comparison between LTE and WiMAX Based on Link Level Simulation,**" International Journal of Computer Networks and Applications (IJCNA) DOI: 10.22247/ijcna/2017/49168 Volume 4, Issue 5, pp.121-128, September – October (2017)
- 25- Safaa Gamal, Mohamed Rihany, [Adel Zaghloul](#) , Abdelhamid Shaalan and Saleh Hussin, "**Two-Tier Power Allocation for Non-Orthogonal Multiple Access Based Cognitive Radio Networks,**" International conference on computer and applications (ASCCSA), Aqaba-Jordan 28 Oct-1Nov 2018
- 26- Eman Salah, Fathy M. Mostafa and [adel zaghloul](#) , "**Performance Optimization of Backward Pumped Fiber Raman Amplifiers,**" IJREAT International Journal of Research in Engineering & Advanced Technology, Vol.7, Issue 2, pp.28-33, April- May, 2019
- 27- Marwa M. A. Elsaatya , [Adel Zaghloul](#) , Khalid. F.A.Husseib , "Intersymbol Interference in Indoor Visible Light Communication Systems Employing LED Sources of Large Area," The Egyptian International Journal of Engineering Sciences and Technology (2019)
- 28- Badawi Neyazi Badawi Ghandour, [Adel Zaghloul Mahmoud](#), Hoda Soliman Seddeq, El , Sayed M.El Rabie, Moawad I. Dessouky and Fathi E. Abd El Samie "**Sensitivity of Pitch Frequency Estimation to Revebration effect,**" Menoufia J. of Electronic Engineering Research (MJEER), Vol. 29, No. 1, Jan.2020
- 29- Eman Salah, Fathy M. Mostafa and [adel zaghloul](#), "**Performance Study of Forward and Backward Hybrid Optical Raman Amplifiers,**" International Jorنال of Mechanical Engineering & Technology (IJMET), vol.11, Issue 06, pp.11-20, june 2020.
30. Amal Ashraf, [Adel Zaghloul](#), Abdalhameed A. Shaalan, HanyKasban. , "**Effect of fog and scintillation on performance of vertical free space optical link from Earth to low Earth orbit satellite**", International Journal of Satellite Communications and Networking, pp.1-11, 2020.

31-Ahmed Gamal Abdellatif Ibrhaim, Mostafa Mohamed Ahmed, Andrea Masiero, Adel Zaghloul Mahmoud , Mohamed E. Nasr and Fathi Elsayed Abdelsamie , ” Indoor positioning system based on magnetic fingerprinting – images, ” Bulletin of Electrical Engineering and Informatics (BEEI) 2021
32-Amany Fouad Abd El-Aal, Adel Zaghloul and Magy Mohamed Kandil, “ Safest and Shortest Exit Algorithm for NPP Fire Evacuation, ” Applied Engineering, 5(1), pp.36-43, 2021
33-Amany F. Abd El-Aal, Adel Zaghloul and Magy M. Kandil, “ Simulation Emergency Fire Evacuation Model for Nuclear Power Plant, ” Journal of Power and Energy Engineering, pp30-52 , sep. 2021
34- Adel Zaghloul , Abdalhameed A. Shaalan, HanyKasban, and Amal Ashraf, " Evaluation of Free Space Optics Uplink Availability to LEO Satellite using Climatic Data in Cairo ", Journal of communication, 2021.
35 Samia Abd El-Moneim · Ahmed Sedik · M. A. Nassar · Adel S. El-Fishawy · A. M. Sharshar · Shaimaa E. A. Hassan, Adel Zaghloul Mahmoud , · Moawd I. Dessouky, · Ghada M. El-Banby, · Fathi E. Abd El-Samie, El-Sayed M. El-Rabaie · Badawi Neyazi, · H. S. Seddeq, · Nabil A. Ismail, · Ashraf A. M. Khalaf, and G. S. M. Elabyad , “ Text-dependent and text-independent speaker recognition of reverberant speech based on CNN, ” International Journal of Speech Technology, https://doi.org/10.1007/s10772-021-09805-3 , published online 8 june 2021
36 Marwa M. A. Elsaaty , Adel Zaghloul , and Khalid. F. A. Hussein, " Light Wave Propagation Model for Indoor Visible Light Communication Systems Employing Small LED Sources, " ACES JOURNAL, Vol. 36, No. 8, pp.1050-1058, August 2021
37- SAFAA GAMAL, MOHAMED RIHAN , SALEH HUSSIN1, ADEL ZAGHLOUL , AND A. ABDELAZIZ SALEM , " Multiple Access in Cognitive Radio Networks: From Orthogonal and Non-Orthogonal to Rate-Splitting, " IEEE Access, <i>Digital Object Identifier 10.1109</i> , VOLUME 9, 2021
38- Safaa Gamala*, Khalid F. A. Husseinb, Mohamed Rihanc, Saleh Hussina, and Adel Zaghloul , " Rate Splitting Multiple Access Scheme for Cognitive Radio Network, " The Egyptian International Journal of Engineering Sciences and Technology , Vol. 38 , pp. 47– 53 ((2022)

Conferences & Workshop:

1- 16 th National Radio Science Conference, NRSC'99, Ain Shams University, Egypt Feb. 1999 Cairo, Egypt
2- 17 th National Radio Science Conference, NRSC'2000, Minufiya University, Egypt, Feb. 22-24, 2000 Minufiya Egypt.
3- Mansoura Third International Engineering, Conference El- Mansoura University, Egypt, 11-13 April 2000.
4- 19 th National Radio Science Conference, NRSC'2002, faculty of Eng., Alexandria University, Egypt, .March 19-21, 2002
5- 3 rd International conference on electrical engineering, Military Technical College Kobry ElKobbah, Cairo, Egypt, ICEENG 2002
6- 23 th National Radio Science Conference, NRSC'2006, Minufiya University, Egypt, Mar. 14-16, 2006 Minufiya Egypt.
7- 24 th National Radio Science Conference, NRSC'2007, Ain Shams University, Egypt April 2007, Cairo, Egypt
8- 29 th National Radio Science Conference, NRSC'2006, Cairo University, Egypt, April 10-12/2012 Cairo Egypt.
1-Workshop on teaching photonics at Egyptian engineering faculties & institutes. National institute of laser enhanced science Giza, Egypt, 18 May, 1999

2-Workshop on teaching photonics at Egyptian engineering faculties & institutes. National institute of laser enhanced science Giza, Egypt, 24 Oct. .2000
3- Faculty and leadership development project – Zagazig University- Dec. 2004, Dec.2004, Oct. 2005
4- 1 st conference of coupling between the industry and university, College of Engineering- Zagazig University, 17-18 April 2006
5- , College of Engineering – Delta University , 2020,

Thesis Supervision

Supervised PhD
1. 3 PhD
2.
3.
4.
Supervised MSc
12 MSc

Teaching Courses

1- Communication Courses: Analogue Communication, Digital Communication, Communications testing, Passive and active filters, Optical Communications (Electro-optic materials and its application, Modulators, couplers), Optical Fiber, Free space optics, satellite communication, radio and video, digital radio communications
2- Fields and waves Courses: Electric and Magnetic Fields, Electromagnetic wave, Micro wave and micro wave links, Radar
3-Electronics Courses: Electronics, Technology of electronic devices, Electronic circuits, Electronic testing, power electronics
Measurement Courses: Electrical measurements, Electronics measurements, Industrial measurements
5- Other Courses, Engineering physics, Technical reports, Computers , Computer Interfacing , Introduction to Microprocessor

Committees

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Prizes and Awards

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