Summary of C.V

Full Name: Prof. Aliaa Abdel-Halim Abdel-Razek Youssif

Nationality: Egyptian.

Social Status: Married.

Educations:

- PhD, Computer Science, 2000, Helwan University, Cairo, Egypt.
- MSc, Telecommunications & Electronics Engineering 1989, Helwan University, Cairo, Egypt.
- BSc, Telecommunications & Electronics Engineering 1980, Helwan University, Cairo, Egypt.

Current Position:

- Dean, College of computing and Information Technology. Arab Academy for Science, Technology and Maritime Transportation (AASTMT), Smart Village Campus, Cairo, Egypt.
- Professor of computer science, Faculty of computing and Information Technology (AASTMT).
- Member of professors Promotion Committee for Arab Academy for Science & Technology and Maritime Transport (AASTMT).
- Reviewer of National Computers and Information. Promotion Committee.
- Reviewer of Al Azhar University. Promotion Committee
- Reviewer of many international scientific journals.

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Fields of Interest: Pattern Recognition, Image Processing, Medical   Imaging, Advanced Algorithms, and Digital systems.
Google Scholar: https://scholar.google.com.eg/citations?user=2690-VYAAAAJ&hl=en

Scopus profile : https://www.scopus.com/authid/detail.uri?authorId=23394249400

Post-doctoral:

- Cardiff University, Wales, UK (2008).
- George Washington University, Washington DC, USA (2005).

Academic visits:

- A visit to Cardiff Metropolitan University, UK (2019).
- A visit to Cardiff Metropolitan University, UK (2018).
- A visit to Vilnius Gediminas Technical University, Lithuania (2018).
- A visit to Vilnius Gediminas Technical University, Lithuania (2017).
- A visit to Cardiff Metropolitan University, UK (2017).

- A visit to Oviedo University, Spain (2017)
- A visit to Masaryk University, Czech Republic (2016).
- A visit to Polytechnic University of Turin, Italy (2016).
- A visit to Granada University, Spain (2016).
- A visit to ENSMM (École Nationale Supérieure de Mécanique et des Microtechniques), Besancon, France (2014).
- A visit to Oviedo University, Spain (2014)
- A visit to UCTM (University of Chemical Technology and Metallurgy), Sofia, Bulgaria (2013)
- A visiting professor at International Telematic University UNINETTUNO, Rome, Italy (2012)
- A visit to Linz University, Linz, Austria (2009).
- A visit to Graz University of Technology, Graz, Austria (2009).
- A visit to Connecticut University in USA (2007).
- Participated in bioinformatics workshop in Finland in July (2006).

Experience :

- Dean, Faculty of computers & information,
  Helwan University, Cairo, Egypt (2015-2018).
- Professor of computer science , Faculty of computers & information,
  Helwan University, Cairo, Egypt.
- Director of Management Information Systems (MIS) in Helwan university (2015-2018)..
- IEEE student branch counselor in Helwan University (2007-2018).
- Vice dean of Postgraduate Studies & Research, Faculty of computers & information,
  Helwan University, Cairo, Egypt.
- Professor(University leave), Faculty of engineering, Arab Academy for Science & Technology and Maritime Transport (AASTMT), 2009-2011
- Vice dean of education and student affairs, Faculty of computers & information,
  Helwan University, Cairo, Egypt, 2007-2009.
- Director of ICDL center at faculty of computers and Information, Helwan University, 2007-2009.
- Teaching different courses and supervising different projects for under and post graduate students at Helwan University and different Egyptian universities(2000 -present time)
- Member of the Egyptian Federation for electronic games.
- A peer reviewer for The National Quality Assurance and Accreditation Committee(QAAP)
- Part time teaching Professor, Faculty of information technology, Misr University for Science and Technology(MUST), 2002-2007.
- A member of different committees to serve the students and community
- Teacher assistant at Faculty of Computers & Information, Helwan University (1996 -2000).
- System Engineer in the Computer Center at Helwan University (1984-1995).

Funded projects:

- Principle Investigator (PI) of "A Robust Facial image enhancement software for Real-World Applications " project, which funded by Academy of Scientific Research and Technology (ASRT).
- Local Coordinator for Mediterranean Area for Science and Technology and Research (MEDASTAR) - Erasmus Mundus Action 2
- A team member of " Mekatron MEDA JEP 32050" TEMPUS(2008-2010).

- A team member of Bioinformatics master's degree" project funded by TEMPUS (2004 - 2008).
- A team member of "Digital Library" project funded by HEEPF (2004 - 2006).
- A team member of "Post Graduated Credit Hours" project Funded by HEEPFE (2004 -2005).
- A team member of "Bioinformatics master degree" project funded by TEMPUS (2004 - 2008).
- Participated in *Solar energy* project, ULP230 (Project supervised by FRCU and USAID) 2000.
- ITIDA Fund for graduation project titled *Clustering System Applied on a Massive Multiplayer Online Game (MMOG), 2007.
- ITIDA Fund for graduation project titled "Face Recognition using FPGA"2007.

Technical conference activities:

- A technical program committee member in the international program committee in The 5th International conference on Frontiers of signal Processing (ICFSP2019), September 2019, France.
- A technical program committee member in the international program committee in The 12th ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2011)6 - 8 July, 2011 University of Technology, Sydney, Australia.
- A technical program committee member in the International Conference committee on Informatics and Systems. INFOS2010, March 2010 Cairo, Egypt.
- A technical program committee member in the international program committee in the Advanced Software Engineering & Its Application Conference, (ASEA 2008) Hainan Island, China, 13-15 December 2008.
- A technical program committee member in the international program committee in The Ninth ACIS International Conference on Software Engineering, Artificial Intelligence, Networking, and Parallel/Distributed Computing (SNPD2008)August 6 - 8, 2008.
- A technical program committee member in the international program committee in the 6th IEEE International Conference on Computer and Information Science (ICIS 2007) Melbourne , Australia 11-13July, 2007.
- Session Chairman in The Second International Conference on Intelligent Computing & Information Systems. ICICIS march 2009, Cairo, Egypt.
- Session Chairman in the International Conference on Communication, Network and Information Security (CNIS2006), MIT, Cambridge, Massachusetts, USA, October, 2006.
- Session Chairman in the The13[th] international Conference on Artificial Intelligence Applications, (ICAIA) 2005, Cairo, Egypt.

Invited Talks;
- Key note speaker at the 2nd International Conference on Frontiers of Image Processing, Barcelona, Spain, March 2018.
- Tanta university in Egypt" Medical computing analysis", March2013.
- German university in Cairo "Medical Imaging Analysis", June 2011.
- German university in Cairo "Automatic Retinopathy Screening System", May 2009.
- Cardiff University in UK " Optic Disc Detection from Normalized Digital Fundus Images" January 2008.
- Connecticut University in USA " Optic Disc Detection from Normalized Digital Fundus Images" August 2007.

Attending Conferences:

- The 23rd International Conference on Circuits, Systems, Communications and Computers (CSCC 2019), Marathon Beach, Athens, Greece, July 14-17, 2019.
- The first International Conference on Applied Mathematics and Computer Science, Paris, April 13-15, 2018.
- The 2nd International Conference on Frontiers of Image Processing, Barcelona, Spain, March 2018.
- Seventh International Conference on Computer Science, Engineering and Applications (CCSEA 2017) Dubai - UAE, January 28-29, 2017.
- The 28th annual congress of Tanat faculty of medicine, Tanta, Egypt, March2013.
- The 2010 world congress in Computer science, computer engineering and applied computing, BIOCOMP'10, Las Vegas ,USA July 2010.
- The international conference GEOBIA2008, Calgary, Alberta, Canada, August 2008.
- International Conference on Communication, Network and Information Security (CNIS2006), MIT, Cambridge, Massachusetts, USA, October, 2006.
- Fifth International Conference on Informatics and Systems. INFOS2007, Cairo, Egypt, March 2007.
- Third Cairo international biomedical engineering conference CIBEC'06, 21-Cairo, Egypt, December 2006.

Teaching Courses:

- Digital Signal Processing.
- Digital image processing.
- Medical imaging.
- Computer Vision.
- Pattern Recognition.
- Artificial Intelligence.
- Computer Architecture.
- Computer Organization.
- Parallel processing.
- Logic Circuit Design.
- Algorithms &Data Structures.
- Multimedia & Peripherals.
- Programming Languages & Object oriented Programming.
- Modeling and Simulation.

Awards

- First prize from The Arab Science and Technology Foundation The Arab Science and Technology Foundation, Made in Arab world Competition in graduate category 2007
  Title : Automated system of detecting retina diseases.
- Ministry of communications prize, Egyptian Engineering Day "EED" 2010 IT-Computer Science Challenge
  Title: Artificial Vision
- First prize from Microsoft company in Egypt, Imagine Cup for students project 2008.
  Title : Mine Hunter.

- First prize from The Arab Science and Technology Foundation, Made in Egypt Competition in graduate category 2007.
  Title : Automated system of detecting retina diseases.
- First prize, Egyptian Engineering Day "EED" 2006 IT-Computer Science Challenge
  Title: Visual Interpretation of Hand Gestures
- Second prize from The Arab Science and Technology Foundation, Made in Egypt Competition in graduate category 2008 .
  Title: Body Gesture.
- Second prize from The Arab Science and Technology Foundation, Made in Egypt Competition in graduate category 2007.
  Title: Clustering System Applied on a Massive Multiplayer Online Game (MMOG).
- Fifth prize from The Arab Science and Technology Foundation, Made in Egypt Competition in graduate category 2007 .
  Title: Vehicle Recognition.

Journal Publications:

1. Wesam A. Askar, Osama Elmowafy, Anca Ralescu, Aliaa A. Youssif, "Occlusion detection and processing using optical flow and particle filter", Int. J. Advanced Intelligence Paradigms, Vol. 15, No. 1, 2020.
2. Ruaa A. Al-falluji, Aliaa A. A Youssif, Shawkat K. Guirguis, "Single Image Super Resolution Model Using Learnable Weight Factor in Residual Skip Connection", IEEE access, volume7, May2019.
   https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8705224
3. Wesam Askar, Osama Elmowafy, Anca Ralescu, Aliaa Youssif, Gamal Elnashar, " Occlusion Detection and Processing using Optical Flow and Particle Filter", International Journal of Advanced Intelligence Paradigms, May 2019
    https://www.inderscience.com/info/ingeneral/forthcoming.php?jcode=ijaip
4. Mohamed M. Adly, Amr S. Ghoneim, and Aliaa A. A. Youssif "On the Grading of Diabetic Retinopathies using a Binary-Tree-based Multiclass Classifier of CNNs" International Journal of Computer Science and Information System (IJCSIS), Volume 17, No. 2, February 2019.
   https://www.academia.edu/38375012/On_the_Grading_of_Diabetic_Retinopathies_using_a_Binary-Tree-based_Multiclass_Classifier_of_CNNs
5. Shaimaa Mohamed , Amr Ghoneim, AliaaYoussif, "Face Spoofing Detection Based on Texture Descriptors" Journal of Advanced Research in Dynamical and Control Systems, JARDCS, 10 special issue 2018.
   http://www.jardcs.org/backissues/abstract.php?archiveid=6814#
6. Heba HamdyAli, Hossam M.Moftaha, Aliaa A.A.Youssif, "Depth-based human activity recognition: A comparative perspective study on feature extraction", Future Computing and Informatics Journal Volume 3, Issue 1, Pages 51-6, June 2018.
   https://www.sciencedirect.com/science/article/pii/S231472881730051X
7. Shaimaa Toriah Mohamed Toriah, Atef Zaki Ghalwash and Aliaa A.A. Youssif, "Shots Temporal Prediction Rules for High-Dimensional Data of Semantic Video Retrieval", American Journal of Applied Sciences, March 2018.
   http://www.bu.edu.eg/portal/uploads/Computers%20and%20Informatics/Computer%20Science/4882/publications/shimaa%20tarih%20mohamed_document(2).pdf
8. Wael E. Fathy, Amr S. Ghoneim, Sameh Zarif, and Aliaa A. Youssif, " Benchmarking of Pre-Processing Methods Employed in Facial Image Analysis", Journal of Image and Graphics, Volume 6, Number 1, June 2018.
   http://www.joig.org/index.php?m=content&c=index&a=show&catid=47&id=168

9. Wesam Askar , Osama Elmowafy , Aliaa Youssif , Gamal Elnashar "Real-time UAV Target Tracking System Based on Optical Flow and Particle Filter Integration", Wseas Transactions On Signal Processing, Volume 13, 2017.
https://pdfs.semanticscholar.org/3274/a13562029f36e2f0fad3270e3ecb9ca013bd.pdf

10. Ali Allam, Aliaa Youssif, Atef Ghalwash "Segmentation of Exudates via Color-based K-means Clustering and Statistical-based Thresholding", Journal of Computer Science, Science Publications, 2017.
http://thescipub.com/pdf/10.3844/jcssp.2017.524.536

11. Ruaa Adeeb Abdulmunem Al-falluji, Aliaa Abdel-Halim Youssif, Shawkat K. Guirguis "Single Image Super Resolution Algorithms: A Survey and Evaluation" International Journal of Advanced Research in Computer Engineering & Technology (IJARCET) Volume 6, Issue 9, September2017.
https://pdfs.semanticscholar.org/ff6a/f6007b6e8dbaedd6f1dae4a4a4f3c66eeb5e.pdf

12. Shereen A. Hussein , HowidaYoussry Abd ElNaby , Aliaa A. A. Youssif " Review: Automatic Semantic Image Annotation", International journal of computer and technology, Vol 15,No 16 (2016), November 2016.
https://rajpub.com/index.php/ijct/article/view/4357

13. Shereen A. Hussein , HowidaYoussry Abd ElNaby , Aliaa A. A. Youssif " Image Multi-Classification using PHOW Features" IOSR Journal of Computer Engineering (IOSR-JCE), Volume 18, Issue 5, PP 31-36, October 2016.
http://www.iosrjournals.org/iosr-jce/papers/Vol18-issue5/Version-6/E1805063136.pdf

14. Ayman Helmy Mohamed, Aliaa A. A. Youssif, Atef Zaki Ghalwash "Public Encryption Techniques for Cloud Computing: Randomness and Performance Testing" International Journal of Computer Applications (0975 – 8887) Volume 136 – No.6, February 2016.
http://www.ijcaonline.org/research/volume136/number6/mohamed-2016-ijca-908441.pdf

15. Aliaa A. A. Youssif, Atef Zaki Ghalwash, Mohammed Ezz El Dien Abd El Kader "Energy Efficient and QoS Aware Framework for Video Transmission over Wireless Sensor Networks" ,Wireless Sensor Network 08(03):25-36 · January 2016.
https://www.researchgate.net/publication/296685134_Energy_Efficient_and_QoS_Aware_Framework_for_Video_Transmission_over_Wireless_Sensor_Networks

16. Ahmed H. Mostafa, Marwa M. A. Elfattah and Aliaa A. A. Youssif," An Intelligent Methodology for Malware Detection in Android Smartphones Based Static Analysis", International Journal of Communications, Volume 10, 2016.

17. Aliaa A. A. Youssif, Atef Zaki Ghalwash, Mohammed Ezz El Dien Abd El Kader "ACWSN: an adaptive cross layer framework for video transmission over wireless sensor networks" Springer Link, wireless network journal, April 2015.
http://link.springer.com/article/10.1007/s11276-015-0939-7?sa_campaign=email/event/articleAuthor/onlineFirst

18. Ali Allam, Aliaa Youssif, Atef Ghalwash " Automatic Segmentation of Optic Disc in Eye Fundus Images: A Survey", Electronic Letters on Computer Vision and Image Analysis 14(1):1-20, April 2015.
http://elcvia.cvc.uab.es/article/view/680/pdf_4

19. W. Askar, O. Elmowafy, A. Youssif and G. Elnashar, "Object Tracking Using Vision on Raspberry Pi", 16th International Conference On Aerospace Sciences & Aviation Technology, ASAT - 16 – May 26 - 28, 2015.
https://asat.journals.ekb.eg/article_22940_ecc0ac90e8eeb39d72a08f29f68ee347.pdf

20. Alaa F. Eldeken, Mohamed M. Fouad, Gouda I. Salama, Aliaa A. Youssif "A New Implementation Approach of Advanced Video Encoding Using HEVC Standard" Springer Series: Advances in Intelligent Systems and Computing, April 2015.

21. Ayman Helmy, Aliaa A. A. Youssif, and Atef Z. Ghalwash "Cloud Computing Security Framework based on Elliptical Curve", International Journal of Computer Applications (0975 – 8887) Volume 110 – No. 15, January 2015

http://research.ijcaonline.org/volume110/number15/pxc3901069.pdf

22. Manar M. F. Donia, Aliaa A. A. Youssif, Atallah Hasha "Spontaneous Facial Expression Recognition Based on Histogram of Oriented Gradients Descriptor" Computer and Information Science; Vol. 7, No. 3; July 2014.
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23. Wessam H. El-Behaidy, Aliaa A. A. Youssif, and Atef Z. Ghalwash "Semi-Supervised Boosting Fold Recognition Algorithm (SB-FR) for Protein Fold Recognition", International Journal of Electrical Energy, Vol. 2, No. 1, March 2014
http://www.ijoee.org/uploadfile/2013/1006/20131006025825385.pdf

24. Iraky Kalifa, Aliaa Youssif and Ahmed Adel. "The use of Mobile technology for Detecting Landmine". International Journal of Computer Applications, Volume 92 – No.5, April 2014.
http://www.ijcaonline.org/archives/volume92/number5/16008-5034

25. Iraky Kalifa, Aliaa Youssif and Ahmed Adel. "Explosive Detection in El Alamein". International Journal of Computer Applications 81(9):18-21, November 2013.
http://www.ijcaonline.org/archives/volume81/number9/14040-1802

26. Ashraf M. Mohy Eldin, Aliaa A. A. Youssif, "A Hybrid Approach for Co-Channel Speech Segregation based on CASA, HMM Multipitch Tracking, and Medium Frame Harmonic Model" (IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 4, No.7, 2013
http://www.journaldatabase.org/articles/hybrid_approach_for_co-channel_speech.html

27. Safa Saad Hussein, Aliaa youssif, and Ghouz H. H. M, "Performance Analysis and Evaluation of UWB Wireless Computer Network for Multi-users and Dynamic Channel Environment" Journal of applied science, October 2013
http://scialert.net/qredirect.php?doi=jas.0000.55319.55319&linkid=pdf

28. Haitham Wahdan, Abdel-Moneim Wahdan, Aliaa A. A. Youssif, "Cryptosystem from Multiple Modalities", European Scientific Journal, vol.9,No30, October 2013.
http://eujournal.org/index.php/esj/article/view/1958/1900

29. Ahmed Sharafeldin, Aliaa Youssif, Samer Kamal, Doaa Khalil, "Information Gain based Methodology to Predict the Effect of Conformational Change on the Existence of f10 Epitope on the Surface of Human H5N1 Virus Hemagglutinin Protein", International Journal of Computer Applications (0975 – 8887) Volume 67– No.2, pp. 34-41, April 2013.
http://research.ijcaonline.org/volume67/number2/pxc3886637.pdf

30. khalifa, Iraky; Youssif, Aliaa; Youssry, Howida" MRI Brain Image Segmentation based on Wavelet and FCM Algorithm" International Journal of Computer Applications; Vol. 47, p32, June 2012.
http://connection.ebscohost.com/c/articles/78373704/mri-brain-image-segmentation-based-wavelet-fcm-algorithm

31. Abbass S. Abbass, Aliaa A. A. Youssif, Atef Z. Ghalwash," Compressed Domain Video Fingerprinting Technique Using The Singular Value Decomposition", Latest Trends in Applied Informatics and Computing, 2012.

32. Abbass S. Abbass, Aliaa A. A. Youssif, Atef Z. Ghalwash," Hybrid Based Compressed Domain Video Finger Printing Technique", Computer and Information Science (CIS) Vol. 5, No. 5; Septmber 2012.
http://www.ccsenet.org/journal/index.php/cis/article/view/17837

33. Safa Saad Hussein, Aliaa youssif, and Ghouz H. H. M, " Performance Analysis and Evaluation of TH-PPM and TH-BPSK under Dynamic Channel Environment", International Journal of Future Computer and Communications, IJFCC 2012 Vol. 1, No. 4, December 2012.
http://www.ijfcc.org/papers/94-F0046.pdf

34. Ali Salih Mahmoud Saudi, Aliaa A. A. Youssif, Atef Z. Ghalwash, "Computer Aided Recognition of Vocal Folds Disorders by Means of RASTA-PLP", Computer and Information Science (CIS) Vol. 5, No. 2; March 2012.
http://www.ccsenet.org/journal/index.php/cis/article/view/13634

35. Marwa M. A. Efattah, Aliaa A. A. Youssif, Ebada Sarhan Ahmed, "Handset Malwares Threats Feature Extraction Based on Behavior Analysis", Computer and Information Science (CIS) Vol. 5, No. 2; March 2012.
http://www.ccsenet.org/journal/index.php/cis/article/view/13261

36. Aliaa A.A. Youssif, Abeer Saad Gawish, Mohammed Elsaid Moussa,"Automated Periodontal Diseases Classification System", (IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 3, No. 1, 2012.
http://thesai.org/Downloads/Volume3No1/Paper%206-Automated%20Periodontal%20Diseases%20Classification%20System.pdf

37. Ahmed H. Gabr, Sherif Keshk, Aliaa A. A.Youssif " Effect of Sensor Mobility and Channel Fading on Wireless Sensor Network Clustering Algorithms", Computer and Information Science (CIS) Vol. 5, No. 1; January 2012.
http://www.ccsenet.org/journal/index.php/cis/article/view/13045/9585

38. Marwa M. A. Efattah, Aliaa A. A. Youssif, Ebada Sarhan Ahmed, "Handsets Malware Threats and Facing Techniques", (IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 2, No. 12, 2011.
http://www.thesai.org/Downloads/Volume2No12/Paper%207-Handsets%20Malware%20Threats%20and%20Facing%20Techniques.pdf

39. Aliaa A. A.Youssif , Amal Elsayed Aboutabl, Heba Hamdy Ali," Arabic Sign Language (ArSL) Recognition System Using HMM", (IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 2, No. 11, 2011
http://thesai.org/Downloads/Volume2No11/Paper%208-%20Arabic%20Sign%20Language%20(ArSL)%20Recognition%20System%20Using%20HMM.pdf

40. Aliaa A.A. Youssif, Shereen A. Hussein, Ahmed S. Ibrahim' Three-Dimensional Detection of Pulmonary Nodules in Chest CT Images", Computer and Information Science (CIS) Vol.4 No.5, September 2011.
http://www.ccsenet.org/journal/index.php/cis/article/view/11949/8360

41. Aliaa A.A. Youssif, Wesam A. Asker "Automatic Facial Expression Recognition System Based on Geometric and Appearance Features", Computer and Information Science (CIS) Vol. 4, No. 2, March 2011.
http://ccsenet.org/journal/index.php/cis/article/view/8627

42. Aliaa A.Youssif, Ashraf A. Darwish & Ahmed Roshdy," Development of Information Agent Reranking By Using Weights Measurement" International Journal of Computer Science & Security (IJCSS), Volume (4) : Issue (2),May2010.
http://www.cscjournals.org/csc/manuscriptinfo.php?ManuscriptCode=67.68.61.77.77.39.44.46.48.104&JCode=IJCSS&EJCode=70.71.64.80.80.101&Volume=43.107&Issue=45.103

43. Mahmoud M. El Hefnawi, Aliaa A. Youssif , Atef Z. Ghalwash, Wessam H. El Behaidy " An *integrated* methodology for mining promiscuous proteins:A Case study of an integrative bioinformatics approach for Hepatitis C Virus non- structural 5a protein" Advances in computational biology, Springer, Vol. 680, pp 299-305 October2010.
http://www.springer.com/engineering/mathematical/book/978-3-642-13213-1

44. Aliaa A.A. Youssif, M. H. Haggag, A. M. Youssef " Learning objects selection model based on student's learning style", The international journal of intelligent computing and information sciences, Ain Shams University(IJICIS), Vol. 10, No. 2, July 2010.

45. Aliaa A.A. Youssif, Atef Zaki Ghalwash, Mohammed Ezz El Dien "An Efficient Decentralized Grid Service Advertisement Approach Using Multi-Agent System", Computer and Information Science (CIS) Vol. 3, No. 2, May 2010.
   http://ccsenet.org/journal/index.php/cis/article/view/4852

46. Aliaa A.A. Youssif, Atef Zaki Ghalwash, Mohammed Ezz El Dien "Performance Optmization for Agent-Based Resources Mangement System of Gride Computing" International journal of intelligent computing and information sciences, Ain Shams University(IJICIS) Vol.10,No.1, January 2010.

47. Aliaa.A.A.Youssif, A.A.Darwish, R.A.Mohamed," Content based medical image retrieval based on pyramid structure wavelet", IJCSNS International Journal of Computer Science and Network Security, Vol. 10 No. 3 pp. 157-164, March2010.
   http://paper.ijcsns.org/07_book/201003/20100322.pdf

48. Aliaa A.A.Youssif, A.A.Darwish, A.M.M.Madbouly, "Adaptive Algorithm for Image Denoising Based on Curvelet Threshold ", IJCSNS International Journal of Computer Science and Network Security, VOL.10 No.1, pp. 322-328 , January 2010.
   http://paper.ijcsns.org/07_book/201001/20100142.pdf

49. Mahmoud M. El Hefnawi, Wessam H. El Behaidy, Aliaa A. Youssif, Atef Z. Ghalwash, Lamya A. El Housseiny, Suher Zada" Natural Genetic Engineering of Hepatitis C Virus NS5A for Immune System Counterattack" Annals of the New York Academy of Sciences Volume 1178, Natural Genetic Engineering and Natural Genome Editing pages 173–185, October 2009.
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50. Aliaa A. A. Youssif, Atef Z. Ghalwash, Amr S Ghonim," Optic Disc Detection from Normalized Digital Fundus Images by Means of a Vessels' Direction Matched Filter" IEEE Transaction in medical imaging,Vol 27,issue1, Jan 2008.
   http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=4408713

51. Atef Z. Ghalwash, Aliaa A. Youssif, and Sherif Hashad " Twords a survival security architecture for Ad Hoc Networks", The international journal of intelligent computing and information sciences, Ain Shams University(IJICIS), January 2007.

52. Atef Z. Ghalwash, Aliaa A. Youssif, and Amena M. Ramadan," Development of a System for Teaching Arabic as a Second Language for Deaf Learners". Egyptian Computer science journal, Volume 29, Number 1, January 2007.
   http://net.shams.edu.eg/ecs/vol.29No1.january2007/DEVELOPMENT%20OF%20A%20SYATEM.htm

53. M.I. Eladawy, Aliaa A.Youssif, Islam. A. Amer, "Finding related Hubs and Authorities based on swarm intelligence", Journal of Engineering sciences, Assuit University, Vol. 33, No. 2, pp.527-538, March 2005.

54. Aliaa A. A. Youssif;" Computer Aided Analysis of Dental Radiography Assessment" Egyptian Computer science journal, Volume 26, Number 1, January 2004.
   http://net.shams.edu.eg/ecs/jan_04_a4.htm

Conference Publications:

55. Ahmed Elshami, Aliaa Youssef and Mohamed Fakhr "On-The-Fly Dynamic Ensembles for Time Series Forecasting",ITISE conference, Granada, Spain, September 25th-27th, 2019.

56. Mohamed Abdelwahab, Waleed Eldeeb and Aliaa Youssif, " LIDAR Data Compression Challenges and Difficulties", 5th International Conference on Frontiers of Signal Processing (ICFSP 2019) , Marseille, France, September 18-20, 2019.

57. Shaimaa Mohamed , Amr Ghoneim , AliaaYoussif, "Visible/Infrared Face Spoofing Detection Using Texture Descriptors ",23rd International Conference on Circuits, Systems, Communications and Computers (CSCC 2019), Marathon Beach, Athens, Greece, July 14-17, 2019 .

58. Heba Hamdy Ali, Aliaa Youssif, Hossam M. Moftah "Statistical HOG on Multi-temporal Depth Motion Maps Approach for Human Action Recognition" The 20th International Conference on Human Computer Interaction Interacción 2019, San Sebastián (Basque Country, Spain), June 25-28, 2019.
https://dl.acm.org/citation.cfm?id=3335624

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Poster Papers:

- Mahmoud M. El Hefnawi, Wessam H. El Behaidy, Aliaa A. Youssif, Atef Z. Ghalwash and Suher Zada."In silico analysis of Hepatitis C Virus NS5a protein: New insights into its immune counteraction mechanisms, and its role in cancer development". World Summit of Antivirals- Kunming, China, 2008.

<u>Supervising the following thesis and dissertation:</u>

Approved PhD and MSc degrees

Title of Thesis or Dissertation	Candidate's Name	Degree and Date of Approval
1. Semantic Based Approach in Video Retrieval	Shimaa Torih	PhD – 2019 Faculty of Computers and Information- Helwan University
2. Ontology-based Human Activity Recognition in intelligent environments	Heba Hamdy	PhD – 2018 Faculty of Computers and Information- Helwan University
3. Automatic Detection of Landmarks and Abnormalities in Retinal Fundus Images	Ali Alam	PhD – 2018 Faculty of Computers and Information- Helwan University
4. Vision Based Target Tracking for UAV	Wessam Attia Asker	PhD-2018 Military Technical College, MTC
5. Towards Automated Framework for Semantic Image Annotation & classification	Shereen Ahmed	PhD – 2017 Faculty of Computers and Information- Helwan University
6. Cloud computing security framework	Ayman Helmy Mohamed	PhD – 2016 Faculty of Computers and Information- Helwan University
7. Efficient Multimedia Transmission Over Wireless Sensor Networks	Mohamed Ezz Eldin	PhD – 2016 Faculty of Computers and Information- Helwan University
8. Design of Advanced Video Encoding/Decoding for Data Link Applications	Alaa Fathy Seleim Eldeken	PhD-2015 Military Technical College, MTC
9. Video Fingerprinting for Content-Based Video Identification	Abbas S. Rosttom	PhD – 2013 Faculty of Computers and Information- Helwan University
10. Segmentation of Multidimensional medical images	Hoida yossry	PhD – 2012 Faculty of Computers and Information- Helwan University
11. Malicious Software Detection System for Mobile Platform	Marwa Mohamed Abdel Fatah	PhD – 2012 Faculty of Computers and Information - Helwan University
12. Using Semantic Web to Enhance the Efficiency of web search Engines	Islam Fahim	PhD – 2012 Faculty of Computers and Information- Helwan
13. Structural and functional analysis of the NS5a protein of Hepatitis C virus	Wessam El-Behaidy	PhD – 2011 Faculty of Computers and Information- Helwan University
14. A study on bioinformatics algorithms	Mohamed M. Hashem	PhD – 2011 Faculty of Science – Ain Shams University

15. Developing Digital Methods for Solving Problems of Informatics Contents in Image Processing in Prepress	Ibrahim Wali	PhD – 2005 Faculty of Applied Arts Helwan University
16. Evaluation of resorbable bilayer collage membrane and an anorganic natural bone in treatment of periodontal bony defects	Tarek Kandil	PhD – 2004 Faculty of oral and dental medicine Cairo University
17. Dynamic Ensemble Model for Time Series Prediction	Ahmed ElShamy	MSc-2019 Engineering College-Computer Engineering Dep. Arab Academy for Science & Technology and Maritime
18. Diseases Deterioration Analysis Based on Deep Learning Approach	Mohamed Momen	MSc – 2018 Faculty of Computers and Information- Helwan University
19. Visible/Infrared Face Spoofing Detection.	Shimaa Mohamed	M.Sc – 2018 Faculty of Computers and Information- Helwan University
20. Automatic generation and detection of highly reliable fiducial markers	Ahmed Mohsen	MSc-2017 Engineering College-Computer Engineering Dep. Arab Academy for Science & Technology and Maritime
21. An Intelligent Automatic Methodology for Identification and Containment of Smartphone Malware.	Ahmed Hesham	M.Sc – 2016 Faculty of Computers and Information- Helwan University
22. Multi-Cross-layer Enhancement For Multimedia over Wireless Mesh Networks	Aml E. El-Araby	MSc-2016 Engineering College-Computer Engineering Dep. Arab Academy for Science & Technology and Maritime
23. Multi biometric feature cryptography	Haytham Wahdan	MSc-2015 Engineering College-Computer Engineering Dep. Arab Academy for Science & Technology and Maritime
24. Automatic Co-Channel Speech Separation	Ashraf Mahmoud	MSc-2014 Engineering College-Computer Engineering Dep. Arab Academy for Science & Technology and Maritime
25. Performance Analysis of Ultra Wide Band Wireless Computer Network	Safa Saad Hussain	MSc-2014 Engineering College-Computer Engineering Dep. Arab Academy for Science & Technology and Maritime

26. Computer assisted landmark identification on the radio graph for orthodontic diagnosis	Mahmoud Sedky	MSc – 2014 Faculty of Computers and Information- Helwan University
27. Mutation analysis of H5N1 virus protein	Doaa Mohamed Hasan Khalil	MSc – 2014 Faculty of Computers and Information- Helwan University
28. A Clustering Algorithm for Wireless Sensor Network	Ahmed Hussin Gaber	MSc-2013 College of Engineering. Arab Academy for Science & Technology and Maritime
29. Automatic Hand Vein Recognition	Ruaa Ahmed	M.Sc – 2012 Faculty of Computers and Information- Helwan University
30. Automatic Facial Expression Recognition	Ali Kazem	M.Sc – 2012 Faculty of Computers and Information- Helwan University
31. Video Copy Detection System	. Cherry Mohamed	M.Sc – 2012 Engineering College-Computer Engineering Dep Arab Academy for Science & Technology and Maritime
32. Classification and Feature Extraction for the Analysis of Integrated Data of HCV-HCC Related DNA Microarray	Salwa Eid	MSc-2012 Engineering College-Computer Engineering Dep. Arab Academy for Science & Technology and Maritime
33. Automatic Recognition of Vocal Folds Disorders	. Ali Saudi	MSc-2012 Engineering College-Computer Engineering Dep. Arab Academy for Science & Technology and Maritime
34. Hand Tracking and Gesture Recognition	Heba Hamdy	M.Sc – 2012 Faculty of Computers and Information Helwan University
35. Automated Periodontal Diseases Classification System	Mohammed El-Said Moussa	M.Sc – 2012 Faculty of Computers and Information- Helwan University
36. Detection and characterization of pulmonary nodules in Medical Images	Shereen Ahmed	M.Sc – 2012 Faculty of Computers and Information- Helwan University
37. Automatic Facial Expression Recognition	Wesam Atia Asker	M.Sc – 2012 Engineering College-Computer Engineering Dep. Arab Academy for Science & Technology and Maritime
38. Data mining for web intelligence	Ahmed Roshedy	M.Sc – 2012 Faculty of Science Helwan University

39. Adaptive Hypermedia in Web Based Tutoring to Meet Different Learning Styles	Ahmed A. Youssif	M.Sc – 2010 Faculty of Computers and Information Helwan University
40. Medical imaging content-based image retrieval	Rania A. Mohammed	M.Sc – 2010 Faculty of Science - Helwan University
41. Study in Enhancement of Distorted Images	Ahmed Madbouly	M.Sc – 2010 Faculty of Science Helwan University
42. Finite Element Solution for Some Electromagnetic Scattering Problems	Yosra Nabeel Abdullah	M.Sc – 2009 Faculty of Girls Ain Shams University
43. Developing an Agent based Geographical Information System	Marwa S. Shaheen	M.Sc – 2008 Faculty of Computers and Information Helwan University
44. Development of a System for Teaching Arabic as a Second Language for Deaf learners	Amena M. Ramadan	M.Sc – 2008 Faculty of Computers and Information Helwan University
45. Developing an Assessment Technique for E-Learning	Ahmed Ezzat	M.Sc – 2008 Faculty of Science- Helwan University
46. AI techniques for ocular pattern classification	Amr S Ghonim	M.Sc – 2007 Faculty of Computers and Information Helwan University
47. Towards survival security architecture for ad-hoc networks	Sherif M. Hashad	M.Sc – 2007 Faculty of Computers and Information Helwan University
48. Development of an Intelligent intrusion detection system for computer networks	Samir Mohamed	M.Sc – 2006 Faculty of Computers and Information Helwan University
49. Development of an Automatic fingerprint Recognition System	Howida Yossery	M.Sc – 2006 Faculty of Computers and Information Helwan University
50. Development of an Automatic Speech Recognition System	Marwa Mohamed	M.Sc – 2005 Faculty of Computers and Information Helwan University
51. Investing virtualization in Enhancing Disaster Recovery and Service Continuity Solution	Sherry Nagi Deskoress	M.Sc – 2005 Faculty of Computers and Information Helwan University
52. Development of an Automatic Speaker Recognition System	Wessam El-Behaidy	M.Sc – 2004 Faculty of Computers and Information Helwan University

Title of Thesis or Dissertation	Candidate's Name	Degree and Registration Date
53. Development if Web Search Engine Optimization	Islam Fahim Amer	M.Sc – 2004 Faculty of Computers and Information Helwan University
54. Security Requirements and Constraints of Voice Over Internet Protocol (VOIP)	Ayman Nabil	M.Sc – 2004 Faculty of Computers and Information Helwan University
55. Testing of Object Oriented Developed Software	Ahmed A Zaher	M.Sc – 2004 Faculty of Computers and Information Helwan University

PhD and MSc degrees under progress

Title of Thesis or Dissertation	Candidate's Name	Degree and Registration Date
1. Anomaly Detection in Big Data Based on Machine Learning	Ibrahim El Lithy	PhD – 2019 Faculty of Computers and Information- Helwan University
2. Applying Artificial Intelligence Algorithm in customer wealth management	Mohsen Abdel Azim Ibrahim	PhD – 2018 Faculty of Computers and Information- Helwan University
3. Decomposition based MOPSO for financial market optimization	Sherin Omran	PhD – 2018 Faculty of Computers and Information- Helwan University
4. Automated computer vision for Omnidirectional videos to Detect and track objects	Khaled Ibrahim	PhD – 2016 Faculty of Computers and Information- Helwan University
5. Enhancement of Two Dimensional Gel electrophoresis images	Aya Ahmed	MSc-2019 Faculty of Computers and Information- Helwan University
6. Detection and Classification of abnormalities in Human Retinal Fundus Images	Said Abu El Dahb	MSc-2015 Engineering College-Computer Engineering Dep. Arab Academy for Science & Technology and Maritime
7. Computer Vision-Based Human Activity Recognition	Mohamed Mahmoud Sobhy	MSc-2015 Engineering College-Computer Engineering Dep. Arab Academy for Science & Technology and Maritime

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3. Dr. Wael Zakaria Abd Allah Mohamed, **PhD** Desertation titled: "On Data Mining in Bioinformatics", Ain Shams University Faculty of Science, Computer science department. June 2015.
4. Dr.Kareman El Helow, **PhD** Desertation titled: "Developing An Enhanced Software Quality Assurance Model For Large Systems", Alexandria University, Institute of graduate studied and research, September 2014.
5. Dr. Mohamed Rezek, **PhD** Desertation titled:" Developing an Intelligent Decision Support System for Shipyard Region Selection". Ain Shams University Faculty of computers and Information, Computer science department. June 2014.
6. Dr. Mazen, **PhD** Desertation titled: "Chaotic-Based key Cryptosystem for PGP Protocol", Ph.D dissertation, Military Technical College, MTC, June 2013.
7. Dr. Ramy Mohab, **PhD** Desertation titled:"Super Resolution Image Reconstruction" Military Technical College, October 2012.
8. Dr. Shahenda Sarhan **PhD** Desertation titled:" Exchanging Opponent Experiences Between Real-Time Strategy Game Engines" Mansora University, Faculty of computers and Information, Computer science department. June 2012.
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3. Capt. Eng. Eslam MagdyMustafa, , **MSc** thesis titled: "Implementation Of Highly Computational Image/Video Applications Using GPUs on Embedded systems", ", Military Technical College, Novamber 2019.
4. Eng. Ali Elsayed Ali Anber, **MSc** thesis titled" Bio-Inspired Mechanism for Detecting Malicious URL through Passive DNS in Big Data Platform", Department of Information Technology Institute of Graduate Studies and Research University of Alexandria. September 2019.
5. Eng. Sara Sherif Murad, **MSc** thesis titled, " An Ensemble Model for Stance Detection in Social Media Texts", Cairo University, Faculty of Engineering.
6. Ms.Doaa Mabrouk. **MSc** thesis titled "Enhancing Information Retrieval through Dependency Modeling", Ain Shams University, Faculty of computers and Information, Computer science department. May 2019.
7. Eng. Ahmed El Sayed, **MSc** thesis titled "Caching Techniques for Flight Delays Prediction in Big Data Using SparkR", Arab academy for science, Technology and Maritime Transport (AASTMT), College of Computing & Information Technology, April 2019.

8. Ms. Munira Abd El Fatah Abd El Maksoud, **MSc** thesis titled" An Improvement and Implementation of the DPLL Satisfiability Algorithm", Cairo University, Faculty of Science, March 2019.
9. Capt. Eng. Ahmed Mohammed Rashad El Gabri, **MSc** thesis "Real-time Programming for Guidance and Control Systems", Military Technical College, January 2019.
10. Ms.Salma El Gaiar. **MSc** thesis titled "Unsupervised Emotion Detection from Text"
Ain Shams University, Faculty of computers and Information, Computer science department. March 2019.
11. Ms.Salma Khaled El Bay, **MSc** thesis titled "Live Migration Overhead Aware Power Saving Algorithm in Cloud Computing", Ain Shams University, Faculty of computers and Information, Computer science department. March 2019.
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13. Eng. Ahmed Awad alla Ahmed Soliman, **MSc** thesis titled "Implementation of Highly Computational Applications on Multicore Graphics Processing Units (GPUs)", Military Technical College.2017.
14. Miss. Nehal Magdy Saber, **MSc** thesis titled "Genaric Trajectory Similarity Measure Based on User Defined Similarity Criteria" Ain Shams University, Faculty of computers and Information, Computer science department. March 2017.
15. Miss. Basma El Bana, **MSc** thesis titled "Interest Aware Location-Based Recommender System Using Geo-Tagged Social Media" Ain Shams University, Faculty of computers and Information, Computer science department. March 2017.
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17. Miss Raneen Abdul Megied **MSc** thesis titled "Treatment of epilepsy using computer system" Helwan University, Faculty of computers and Information, Computer science department. December 2016.
18. Eng. Sameh Samir Mohamed Hassan, **MSc** thesis titled:"Lossless image compression using statistical clustering for minimizing entropy", Arab academy for science, Technology and Maritime Transport, College of Engineering and Technology, December 2016.
19. Mr. Ahmed Helmy El Said, **MSc** thesis titled "Multi-Step Ahead Time Series Forecasting Using Sparse Representation and Dictionary Learnig ", Arab academy for science, Technology and Maritime Transport (AASTMT), College of Computing & Information Technology, October 2016.
20. Mr. Mahmoud Mohamed Bassiouni EL-Sayed, **MSc** thesis titled "A Biometric Intelligent Techniques based on Heart Signals" Ain Shams University, Faculty of computers and Information, Computer science department. December 2016.
21. Miss Ghada Walid Ahmed, **MSc** thesis titled "Adapted Framework For Implementing Data Mining Techniques To Enhance Decision Support Systems In Agriculture Sector", Arab academy for science, Technology and Maritime Transport (AASTMT), College of Computing & Information Technology, August 2015.
22. Miss Abeer Yehia, **MSc** thesis titled "Altruism and Social Networks", Faculty of computers and Information, Operations Research & Decision Support Department, July 2015.
23. Eng.Marwa Ayad, **MSc** thesis titled "Mobile Cloud Computing" Ain Shams University, Faculty of Engineering, Computer Engineering Department, January 2015.
24. Eng. Ahmad Kamal Hamed, **MSc** thesis titled "Security of Wireless Communication Networks" ", Military Technical College, MTC, September 2014.
25. Eng.Mohamed Tarek Abdelsadek Osman, **MSc** thesis titled "Two Extended Programmable Bch Soft Decoders Using Least Reliable Bits Reprocessing" Cairo University, Faculty of Engineering, Telecommunications and electronics Department, September 2014

26. Eng.Kareem Mohamed Naguib Ahmed, **MSc** thesis titled "Enhancing Cases Retrieval and Adaptation in Case Based Reasoning" Ain Shams University, Faculty of computers and Information, Computer science department, September 2014.
27. Miss Sara Nabil, **MSc** thesis titled "Organic User Interfaces Design Principles and Usability Standards", Faculty of computers and Information, Computer science department, September 2014.
28. Eng. Ibrahim Mohamed El-leithy, **MSc** thesis titled "Algorithms for A Secure Fingerprint Authentication on Smart Card", Military Technical College, MTC, June 2013.
29. Miss. Sahar Mohammed Abduljalil, **MSc** thesis titled" Secured Services In Cloud Computing Environment", Cairo University, Faculty of computers and Information, Information System Department, April 2014.
30. Mr. Fouad Mohamed Ali, **MSc** thesis titled " Optimization of P2P Network Overlays". Cairo University, Faculty of computers and Information, Information System Department, March 2014.
31. Mrs. Eman Marzban, **MSc** thesis titled " Myocardium Segmentation Using Active Contour Model With Optical Flow Guided Evolution "Cairo University, Faculty of Engineering, Biomedical Engineering Department, June 2013
32. Mr. Magdy Abd-elghany Zeid, **MSc** thesis titled "Breast Cancer Diagnosis Using Single and Multi-Classifiers" Arab academy for science, Technology and Maritime Transport (AASTMT), College of Computing & Information Technology, June 2013.
33. Mr. Amgad Naiem Mortagy, **MSc** thesis titled "Using Parallel Computation in Solving the Assignment Problem".Cairo University, Faculty of computers and Information, Information System Department, Novmber 2012.
34. Mr.Ashraf Naser, **MSc** thesis titled "Enhancement of Remotely Sensed Images" Helwan University, Faculty of Science, Mathematics department ,Novmber 2012.
35. Mrs, Mona Abbas, **MSc** thesis titled:"Implementation of the Operations Management for Distributed Databases" Helwan University, Faculty of Science, Mathematics department. October 2009.
36. Mr. Mohamed Ali, **MSc** thesis titled:"Evolutionary Fuzzy ARTMAP Approach for Brest Cancer Diagnosis", Arab academy for science, Technology and Maritime Transport, College of Computing & Information Technology, May 2012.
37. Mrs. Caroline Samy Lamie, **MSc** thesis titled: " Automated Approach for Designing GUI for Web-based Information Systems", Cairo University Faculty of computers and Information, Information System Department, December 2010
38. Mr.Nader Hana, **MSc** thesis titled: " Segmentation of Liver Structure in Medical Images", Minufiya University Faculty of computers and Information, Information Technology Department, Novmber 2010.
39. Mr,Ahmed Fawzy, **MSc** thesis titled:"A Combined Features of Ear and Face Imaging for the Human Recognition and Identification" Helwan University, Faculty of Science, Mathematics department. October 2009.
40. Mrs. Gahada Abdel Kareem Gad , **MSc** thesis titled: " Analysis of DEM for shading satellite images", Ain Shams University, Faculty of Science, Computer science department. May 2009.
41. Mr.Sameh Zarif Fahim, **MSc** thesis titled: " Restoration of Missing Parts or Scratches in Digital Images", Minufiya University Faculty of computers and Information, Information Technology Department, March 2009.
42. Mrs. Doaa Samy, **MSc** thesis titled: "Case tool to enhance system development", Helwan University, Faculty of computers and Information, Computer science department. October 2008.
43. Mr. Ehab El-Gindy **MSc** thesis titled:" Cognitive Models for Target Motion Tracking" Helwan University, Faculty of computers and Information, Computer science department. October 2007.

<u>Visited Country:</u>

United State of America, Canada, Great Britain, Holland, France, Belgium, Switzerland, Italy, Austria, Finland, Spain, Czech Republic, Lithuania, Greece, Turkey, Thailand, Bulgaria, United State of Emirates, Saudi Arabia, Lebanon, Syria and Morocco.

<u>References</u>:

- Prof. Maged Negm: President, Helwan University, Cairo, Egypt.
- Prof. Ebada Sarhan: President, Future University, Cairo, Egypt.
- Prof. Tarek El-Ghazawy: Professor in electrical engineering department. George Washington University, Washington DC, USA.
- Prof. Atef Ghalwash, Head of National Computers and Information. Promotion Committee., Egypt.