

هشام فاروق على محمد عبد الحافظ

أستاذ مشارك | قسم الحاسبات والنظم | معهد بحوث الالكترونيات مدير الأبحاث والابتكار بالإنابة | معهد تكنولوجيا المعلومات | (ITI) وزارة الاتصالات وتكنولوجيا المعلومات (MCIT)

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التعليم	جامعة القاهرة	
\ . *	الدكتوراه	1996 – 2001
	الإلكترونيات و الاتصالات – كلية الهندسة	
	الماجستير	1993 – 1996
	الإلكترونيات و الاتصالات – كلية الهندسة	
	البكالوريوس	1986 – 1991
	الإلكترونيات و الاتصالات – كلية الهندسة	
شهادات أخرى	. > Innovation Guide, IMP³rove academy coaching program, EU	2013
	Intel Ideation camp coaching	2005
	Soft skills workshop	2006
	Management course , IESA Univ. Spain	2002 – 2003
	CCNA Certification	

> M	oft skills workshop Management course , IESA Univ. Spain CONA Certification		2006 2002 – 2003
n √ المجالات البحثية ۷۰ √ ۱n ۱n √ Pa ۷ √ M ۷۰ √ VI	Content mage processing, Compression, Enhancement. Video processing, Compression, indexing, retrieval. Interactive Video on Demand. Vattern Recognition. Video technology and applications VICAR/ MR		
الجوائز	(أفضل مقالة علمية لعام Cogent engineering Journal 2019 , (الميدالية الذهبية في محور السياجة بمعرض القاهرة تبتكر الخامس في مشروع السياحة الافتراضية		2019 2018
	ر جائزة التميز العلمي لعام ERI 2018 ,		2018
	(جائزة التميز العلمي لعام 2017 ERI , ERI		2017
	د جائزة الاتحاد العربي للمكتبات و المعلومات عن مشروع دار الوثائق		2009
	جائزة أفضل رسالة دكتوراه في جامعة حلوان لعام 2006 (شهادة قائمة الشرف العلمية بالجامعة الأمريكية لأكثر من 12 ترم	>	2006 1997:2002

الاستراتيجيات القومية

الدور الرئيسي

- وضع الرؤية و المهمة و الأهداف
 - تحليل الوضع القائم
 - وضع السياسات
- وضع خارطة الطريق و التوجهات
- استحداث المبادرات و المشروعات

Strategy 1: "INNOVATION IN MOBILE FOR DEVELOPMENT", Ministry of Scientific Research

Strategy 2: "KSA mobile strategy", KSA

Strategy 3: "ERI Strategy and Road map for 2030"

Strategy 4: "Human Capacity Building Scalability" Master Plan, MCIT

Strategy 5: "Egypt Government Cloud Computing", MCIT

Strategy 6: "Strategic Plan for eContent", MCIT

Strategy 7: "Mobile for Development", MCIT

الاستشارات (أمثلة)

o ITU (International Telecommunication Union

 Ministries: Education, tourism, Culture, Electricity, Information, Foreign Affairs, Agriculture, Luxor Governorate

- o General Authority for Educational Building
- o EL-Nasr Car manufacturing
- Mobil Oil factory
- Traffic control systems (el-Giza)
- Traffic Control systems (Elsharkeyya)
- Gaz distribution system

2017-2019 2003-2013

1996

1998

20002011

2012

MCIT/TIEC/ITI

أنشطة احترافية (أمثلة)

1. Managing freelancing initiative

2. Standardize ITI tracks according to SFIA

3. National archive Digitization

4. Mobile application task force vise president

5. Microsoft Governmental agreement coordinator

6. Building a map for the player of the technology clusters

7. Helping in planning and establishing universal mobile lab.

8. Launching Egypt Innovate: Mobile Award

9. Building Cloud Computing Lab

10. Preparing for Cloud Computing Academy

11. Evaluation of ITAC-ITIDA proposals

12. Judging IBTICAR competition — TIEC-MCIT

13. Referee in National eContent competition for couple of years

14. Launching Arabic eContent Initiative

ERI

15. Member in the committee for evaluating the final projects for the ministry of communications and information training system

1993-2019

2014-2015

2014-2015

2008-2011

2013-2014

2006-2008

2005-2008

2013

2012

2012

2013

2010

2012-2014

2005, 2006

2005

2002

1. Technical Study preparation for Intranet for the Higher council for Research Centers and Institute

2. Technical study preparation for Robot track car controlled remotely

- 3. Technical study for replacing analog computer control system with digital computer control system
- 4. Technical consultation for Elsharkeya electronic traffic monitoring
- 5. Member in the committee for evaluating the proposals in an Egyptian competition in the field of IT technology, (Hardware, Software and informatics).
- 6. Sponsored by the Egyptian Society for PC's Technologies Workers.
- 7. Member in the many committees of describing technical specifications for many equipment and laboratory preparation
- 8. Member in many committees for evaluating the products, software and hardware

ERI

مشروعات بحثية (أمثلة) Efficient Media Digital Library Design and Implementation of Summarized Video based on Scalable Video Coding for H.264 (MDLSS)

- "Virtour New Paradigm for virtual tour" ASRT
- " A Low Cost Video and Image Compression Framework". Funded NSF
 - NILESAT receiver (video compression group) Funded ERI.
 - Building Security algorithm using DSP and FPGA. Pattern recognition (Okrania).

2016-2019 1998-2000

2007-2009

إشراف على الرسائل

الدكتوراه

- ✓"New Adaptive Technique for Human Body Motion Detection ad Face Recognition based on Wavelet Transform"
- ✓ "Interactive Video On Demand System over Long Range Ethernet"
- √ "Mines Detection and classification"
- ✓ "Video Streaming over Wireless Networks"

الماجستير.

- ✓ "Fusion Algorithm for Face Detection And Recognition"
- ✓ "New Video streaming technique over mobile networks"
- ✓ "A Novel Techniques for Media Asset Management performance Enhancement"
- ✓ "Segmentation for magnetic resonance images of the brain"

مشروعات قومية

Arabic eContent Initiative

Building a portal on the internet having more than 15000 **digitized** titles (<u>www.fekr-rama.com</u>) with Digital Rights management (DRM) and ePayment (VISA, Scratch Card, etc.), digitizing contents (books, software, movies, media, etc...)

(أمثلة)

➤ News portal for Egyptian radio and TV union, ERTU www.egynews.net.

Building a portal for online news service, with news library and online streaming, It was ranked No. 1 news portal in 2010-2011

- National Archive of Egypt (NAE)
- It was a digitization and archiving project for 90 million documents
 Won "The prize of Arab Federation of Library and Information", 2009
- Community and knowledge generation portal

<u>www.fekrzad.com</u>, A portal serving the Community based on generating competitions between preparatory schools students.

- Luxor governorate Portal www.luxorportal.com
- > Sound and Light company portal www.soundandlight.com.eg
- Ministry of agriculture

Building information system for the (Economic activity sector).

➤ Ministry of Foreign Affaires: Study for building a portal to connect Egyptian consulates with the ministry of Foreign Affairs.

Smart School network

Equipping 100 schools as a model for connecting Administration, teachers, Student and parent together with modern educational tools and portable classroom (UNDP)

> Irrigation and drainage system

As a project manager for this project for a modular farm in Elsharkeyya -**Electrocard**

- > CAD/CAM system in KAFR EL-DAWWAR factory
- Expert system for plants disease sponsored by the USAID. (ERI)
- > Data logging systems using programmable logic control (PLC) STIA

التعاون الدولي

Conferences, workshops, seminars, training, Site visits in: UK, USA, France, Italy, Spain, Greece, Turkey, South Korea, United Arab of Emirates, Sudan, Netherland and China

Teaching Experience

in the field of signal processing, computer systems and networking in many خبرات تدريسية universities, academies as AUC, FUC, El-Obour academy, Elmadina academy, 6 of October university أمثلة

And others:

Ministry of Finance, Ministry of Education, Ministry of Local Development, Middle East Advisory Group, IDSC EGYfIT, TRI –TECH, TeleWeb

- 1. System Design, Basic Internet Services.
- 2. HTML., DHTML, ASP
- 3. Web technologies, Computer internetworking.
- 4. Corporate Intranet.
- 5. LAN & WAN concepts and CCNA, TCP/IP protocol
- 6. Windows server administration
- 7. Telecommunication and networking.
- 8. Macromedia FLASH, Multimedia applications, Computer graphics
- 9. Computer Peripherals, Operating Systems, IBM PC maintenance
- 10. Database programming

النشر العلمي

Book chapter: Mobile Government in Egypt:

(Examples) Opportunities and Challenges

in the book: E-Government Implementation and Practice in Developing Countries (2013)

Scientific papers

- 1. H. Farouk, S. Mashali, M. Rashwan, A. Nassar, "A New Fast Adaptive Compression Technique For Color Image Compression", Application of digital Image Processing XIX, SPIE, 28 July to 2 Augest 1996.
- 2. H. Farouk, S. Mashali, M. Rashwan, A. Nassar, "New fast adaptive matching criterion for block-based motion compensation", Application of Digital Image Processing XXIII, SPIE, 30 July to 4 Aug 2000.
- 3. H. Farouk, S. Mashali, M. Rashwan, A. Nassar, "Fast Memorized Search Technique for Block-Based Motion Estimation", Applications of Digital Image Processing XXIV, SPIE, 29 July to 3 Aug 2001.
- 4. H. Farouk, S. Mashali, M. Rashwan, A. Nassar, "Video Compression Improvements Based On Camera Motion", IEEE ISSPIT Dec. 28-30, 2001.
- 5. H. Farouk. H. El_Salamouny, A. Darweesh, "3D Human Body Motion Detection and Tracking in Video", The 14th. International Conference on Applied Simulation and Modeling. June pp. 120-125, Benalamadena, Spain., June 15-17, 2005
- 6. H. Farouk, Darweesh,. Ali, Hany M. El-Salamony, "Automatic Face Detection and Matching in Video and Static Images using Wavelets Decomposition", Egyptian Computer Science Journal, Vol. 27, No. 3, July 2005.
- 7. H. Farouk, S. Mashali, M. Rashwan, "Efficient Compression Technique for Panorama Camera Motion", WSEAS, Turkey, June, 2006.
- 8. H. Farouk, R. Mohamed, "A Comparative Study for Open Document Formats", 2nd International Conference on Universal digital Library, .ICUDEL., pp. 195-201, Alexandria, Egypt, 17-19 November, 2006.
- 9. H. Farouk, A. Yehia, "Steps Towards The Arabian Digital Information Society", Second Arabic Meeting for Information and Libraries, Dec, 2007
- 10. H. Farouk, "Adaptive I frame Positioning For MPEG Bit Rate Improvement", 11th WSEAS CSCC. Agios Nikolaos, Crete Island, Greece, July 26-28, 2007.
- 11. H. Farouk, "MPEG Bit Rate Improvement Using Adaptive GOP,"International Journal of Circuits, Systems and Signal Processing, pp 8-11, Issue 1, Vol. 1, 2007.
- 12. H. M. Khalil, H. Farouk, D.A Said, "An Efficient automated Detection and matching technique for Landmines in IR images", Journal of Alazhar University Engineering Sector, JAUES, April 2008.
- 13. H. Farouk, E. Elshimy, S. Ahmed, I. Ismail, "Interacitve Video On Denamd System With Self-detection And Recovering From Fauilures: Design And Implementation", Journal of Alazhar University Engineering Sector, JAUES, April 2008.
- 14. H. Farouk, E. Elshimy, S. Ahmed, I. Ismail, "A Novel Approach for Resources Self-Detection and Recovering from Failures in Video-on- Demand systems", Egyptian Informatics Journal, Issue 1,2, Vol. 9, pp. 395-405, December 2008.
- 15. H. Farouk etal, "A DESIGN FOR AN FPGA IMPLEMENTATION OF RIJNDAEL CIPHER", Journal of Programmable Devices, Circuits, and Systems, International Congress for Global Science and Technology (ICGST), 2009.
- 16. H. Farouk, A. H. Salamouny, "Digital Library Creation Based On Wavelet Coefficients for Video Stream Indexing and Retrieving", 2nd International Conference on Signal Processing Systems (ICSPS), V1, pp. 158-162, Dalian China, 5-7 July, 2010
- 17. H. Farouk, A. Tobal, "An Efficient Detection and Classification Method for Landmine Types Based on IR Images Using Neural Network", International Journal of Geology, pp. 91-95, Issue 1, Volume 4, 2010.

- 18. H. Farouk, etal, "High Precision Face Detection and Recognition based on Fusion of Discernment Techniques", ICGST International Journal on Graphics, Vision and Image Processing, GVIP, Issue 2, Vol. 11, pp. 31-39, April 2011
- 19. H. Farouk, B. Amin, A. Mostafa, "A Novel Design for Smart App Firewall Framework" ,Complexity, Informatics and Cybernetics: IMCIC 2014, Orlando, Florida, USA, March 4 7, 2014.
- 20. H. Farouk, M. Elnwawy, B. Amin, "Innovation Management Benchmarking for ICT Firms in Egypt", IAMOT 2014, Washington DC, USA, 22-26 May, 2014.
- 21. Hafez Fouad, Hesham Farouk, "Design And Implementation Of Video Conferencing Cloud-Based Network Using VOIP For Remote Health Monitoring In Telemedicine System", "International Journal of Computer Informatics & Technological Engineering" (IJCITE), VOL 1, ISSUE 1, MARCH- APRIL, 2014.
- 22. H. Farouk, K. ElDahshan, and A. Abozeid, The State of the Art of VideoSummarization for Mobile Devices: Review Article, Graphics, Vision and Image Processing GVIP, volume(14), issue(2), pages. 37-50, 2014.
- 23. H. Farouk, K. A. ElDahshan, and A. Abozeid, "The State of the Art of Video Summarization for Mobile Devices: Review Article", Graphics, Vision and Image Processing GVIP, volume (14), issue (2), pages. 37-50, 2014.
- 24. Hafez Fouad, Hesham Farouk, "Design and Implementation of Wireless Sensors Network and Cloud Based Telemedicine System for Rural Clinics and Health Centers", International Journal of Scientific & Engineering Research (IJSER), Volume 6, Issue 2, February 2015.
- 25. H. Farouk, K. A. ElDahshan, and A. Abozeid, "Video Summarization for Mobile devices based on Visual Saliency Detection", Advances in Computer Related Research Work, Mar 23, 2015.
- 26. H. Farouk et al, "Efficient Media Digital Library Design and Implementation of Summarized Video based on Scalable Video Coding for H.264 (MDLSS)", The Seventh International Conference on Advances in Databases, Knowledge, and Data Applications, DBKDA, 2015, Rome, Italy, May 24 29.
- 27. Hesham Farouk, Kamal A. ElDahshan, Amr Abozeid, "Effective and Efficient Video Summarization Approach for Mobile Devices", International Journal of Interactive Mobile Technologies. IJIM, ISSN: 1865-7923, Vol 10, No 1, 2016
- 28. Ibrahim E. Ziedan, Shimaa Mohamed, Hesham Farouk, "Comparative Study on Human Identification using Ear Biometrics", International Journal of Computer Science and Information Security (IJCSIS), Vol. 14, No. 11, November 2016.
- 29. Amr Abo Zaid, Hesham Farouk, Kamal Eldahshan, "Scalable Video Summarization based on Visual Attention Model", CONTENT2018, The Tenth International Conference on Creative Content Technologies, Barcelona, Spain, February, 2018
- 30. Mohamed Kamel, Hesham Farouk and Samia Mashali, "A Novel approach for Fairness Video Streaming and Processing in Multi-Users Systems", International Journal of Electrical systems and Information Technology, JESIT, ISSN:2314-7172, July, 2019, Accepted