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Prof Hala Helmy Mohamed Zayed



Name: Hala Helmy Mohamed Zayed

Position: Dean of faculty of computers and informatics, Benha University.

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Birth date: 18-1-1963

Education:

- **B. Sc. Electronics – fac. of engineering Shoubra- excellent with honor degree – 1985.**
- **M. Sc. Electronics – fac. of engineering Shoubra- 1989.**
- **Ph. D. Electronics – fac. of engineering Shoubra- 1995. Thesis entitled: “Application of Neural Network Techniques in Robot Systems”**
- **Associate Professor in “computer engineering” since 2005.**
- **Professor in “Computer science” since 2012.**

Activities in higher education

- **Consultant of the It units project in the Egyptian universities which is one of the ICTP project branches since 2012 till now.**
- **Manager of the e-learning center of Benha University from 2007 to 2012.**

- Manger of the IT center of Benha University from 2006 to 2016.
- An accredited reviewer for NAQAAE (National Authority for Quality Assurance and Accreditation of Education)

Published Papers:

- 1- Doaa M. Alebiary, Noura A. Semaary, Hala H. Zayed, “***An Efficient Semantic Image Retrieval based on Color and Texture Features and Data Mining Techniques***” International Journal of Computer Applications, Volume 158 - Number 7, 2017.
- 2- M. Khalifa M. Taha, Hala H. Zayed, T. Nazmy, “***Day/Night Detector for Vehicle Tracking in Traffic Monitoring Systems***”, International Journal of Computer, Electrical, Automation, Control and Information Engineering , 2016/1.
- 3- Doaa M Alebiary, Noura A Semaary, Hala H Zayed, “***Semi-Automatic Semantic Based Natural Images Retrieval System***”, Proceedings of the 10th International Conference on Informatics and Systems, 323-324, 2016/5/9.
- 4- Ahmed Taha, Hala H. Zayed, M. E. Khalifa and El-Sayed M. El-Horbaty, “***Human Activity Recognition for Surveillance Applications,***” ICIT 2015 The 7th International Conference on Information Technology, pp. 577-586, 2015.
- 5- Ahmed Taha, Hala H. Zayed, M. E. Khalifa and El-Sayed M. El-Horbaty, “***Skeleton-based Human Activity Recognition for Video Surveillance,***” International Journal of Scientific & Engineering Research, Volume 6, Issue 1, pp. 993-1004, January-2015.
- 6- Mohamed Taha, Hala H. Zayed, M. E. Khalifa, Taymoor Nazmy, “***Multi-Vehicle Tracking Under Day and Night Illumination*** ”, International Journal of Scientific & Engineering Research, Volume 5, Issue 11, pp.837-847, November-2014.
- 7- Mohamed Taha, Hala H. Zayed, M. E. Khalifa, Taymoor Nazmy, “***An Efficient Method for Multi Moving Objects Tracking at Nighttime,***” IJCSI International Journal of Computer Science Issues, Volume 11, Issue 6, No 1, pp. 17-27, November 2014.
- 8- Ahmed Taha, Hala H. Zayed, M. E. Khalifa and El-Sayed M. El-Horbaty, “***Human Action Recognition based on MSVM and Depth Images,***” IJCSI International Journal of Computer Science Issues, Vol. 11, Issue 4, No 2, pp. 42-51, July 2014.
- 9- Ali Ahmed, Amr M Nagy, Hala H Zayed, “***Particle Filter Based On Joint Color Texture Histogram For Object Tracking*** “, IEEE IPAS’14: International Image Processing Applications And Systems Conference, pp. 1-6, 5-7 Nov. 2014.
- 10- Mohamed Taha, Hala H. Zayed, M. E. Khalifa, Taymoor Nazmy, “***Moving Shadow Removal for Multi-Objects Tracking in Outdoor Environments***”, International Journal of Computer Applications Volume 97– No.10, pp. 43-51, July 2014

- 11-Ahmed Taha, Hala H. Zayed, M. E. Khalifa and El-Sayed M. El-Horbaty, "***Exploring Behavior Analysis in Video Surveillance Applications***", International Journal of Computer Applications, Volume 93 - Number 14, pp. 22-32, May 2014.
- 12-MK Galab, HM Abdalkader, HH Zayed "***Adaptive Real Time Eye-Blink Detection System***" International Journal of Computer Applications, Volume 99 - Number 5, pp. 29-36, August 2014.
- 13-Amr M Nagy, Ali Ahmed, Hala H Zayed, "***A Robust Approach For Object Tracking Based On Particle Filter And Optimized Likelihood***", International Journal of Emerging Technologies in Computational and Applied Sciences, 7(1), December 2013-February 2014, pp. 54-61
- 14-Mohamed Taha, Hala H. Zayed, M. E. Khalifa, Taymoor Nazmy, "***Moving Shadow Removal for Object Tracking***," The Sixth International Conference on Intelligent Computing and Information Systems (ICICIS 2013), pp: 131-141, Dec. 14-16, 2013, Cairo, Egypt.
- 15-Mai K.Galab, H.M.Abdalkader, Hala H. Zayed, "***Low Cost Robust Blink Detection System***," The Sixth International Conference on Intelligent computing and Information Systems (ICICIS 2013), pp: 185-192, Dec. 14-16, 2013, Cairo, Egypt.
- 16- YM George, HH Zayed, MI Roushdy, BM Elbagoury, "***Remote Computer-Aided Breast Cancer Detection and Diagnosis System Based on Cytological Images***", IEEE Systems Journal, IEEE (Volume:8 , Issue: 3), September 2014, pp. 949 - 964.
- 17-Shimaa I Hassan, Mazen M Selim, Hala H Zayed, "***User Authentication with Adaptive Keystroke Dynamics.***", International Journal of Computer Science Issues (IJCSI), 10(4), 7-2013, pp. 127-134
- 18-Ahmed Taha, Hala H. Zayed, M. E. Khalifa and El-Sayed M. El-Horbaty, "***On Behavior Analysis in Video Surveillance***," In proceedings of the 6th International Conference on Information Technology (ICIT 2013), Al-Zaytoonah University of Jordan, Amman, Jordan, May 2013.
- 19-Amr M. Nagy, Ali Ahmed and Hala H. Zayed, "***Hybrid Iterated Kalman Particle Filter for Object Tracking Problems***," 8th International Conference on Computer Vision Theory and Application (VISGRAPP Feb. 2013) , pp. 375-381.
- 20-Yasmeen M. George, Bassant M. Bagoury, Hala H. Zayed and Mohamed I. Roushdy, "***Automated Cell Nuclei Segmentation for Breast Fine Needle Aspiration Cytology***", Signal Processing, Science Direct, pp. 2804-2816, (August 2012).
- 21-Nada B. Ibrahim, Mazen M. Selim and **Hala H. Zayed**, "***A Dynamic Skin Detector Based on Face Skin Tone Color***", 8th International Conference on Informatics and Systems (INFOS), 2012, pp MM-1 - MM-5, 14-16 May 2012.
- 22-YM George, BM Bagoury, HH Zayed, MI Roushdy, "Breast Fine Needle Tumor Classification using Neural Networks", IJCSI International Journal of Computer Science Issues, Vol. 9, Issue 5, No 2, September 2012, pp 247-256
- 23-**Hala H. Zayed**, "A novel steganographic technique based on block pixel value differencing", accepted for publishing at the International Journal of Intelligent Computing and Information Sciences, Jan 2012.

- 24-**Hala H. Zayed**, Sherin Kishk and Hosam M. Ahmed, "**3D Wavelets with SPIHT Coding for Integral Imaging Compression**", IJCSNS International Journal of Computer Science and Network Security, Vol:12, Issue no1, pp126 -133, Jan. 2012.
- 25-Mohamed A. Helala, Mazen M. Selim² and **Hala H. Zayed**, "**A Content Based Image Retrieval Approach Based On Principal Regions Detection**", IJCSI International Journal of Computer Science Issues, Vol. 9, Issue 4, No 1, pp. 204-213, July 2012.
- 26-Ahmed H. Fares, Mohamed I. Sharawy and **Hala H. Zayed**, "**Intrusion Detection: Supervised machine learning**", the Journal of Computing Science and Engineering (JCSE),pp305-313, Nov. 2011
- 27-Sh. Kishk, H. El. M. Ahmed and **H. Helmy**, "**Integral Images Compression using Discrete Wavelets and PCA**", International Journal of Signal Processing, Image Processing and Pattern Recognition, Vol:4, Issue no2, pp78-65, June 2011.
- 28-El Sayed, N.A.M., Zayed, H.H., Sharawy, M.I. , "**ARSC: Augmented Reality Student Card**", Computers & Education, Science Direct, 56 (4), 1045-1061 ,(May 2011)
- 29-Ahmed Z. Bayoumy, Hala H. Zayed, May A. Salama, "**Adaptive Sliding Piece Selection Window for BitTorrent Systems**", Advances in Multimedia - An International Journal (AMIJ), Volume: 2 Issue: 1, pp. 18-29, March/April 2011
- 30-**Shady Y. EL-Mashed ,Mohammed I. Sharway and Hala H. Zayed**, "**Speaker Independent Arabic Speech Recognition Using Support Vector Machine**", Agria Media 2011 and ICI-11 Conference, Hungary, pp 401-416, October 2011.
- 31-Shady Y. El-Mashed, Hala H. Zayed , Mohamed I Sharawy, "**Speaker Independent Arabic Speech Recognition Using Neural Networks**", ICI10, International conference on Information, December 2010, Mansoura, Egypt.
- 32-Ahmed H. Fares, Mohamed I. Sharawy, Hala H. Zayed, "**A Fast Intrusion Detection Technique Based On Machine Learning**", 35th international conference for statistics, computer science and its applications, Cairo, pp. 61-76, April 11-22, 2010
- 33-Helala, Mohamed Ahmed Ebrahim Selim, Mazen Mohamed Zayed, Hala Helmy "**An Image Retrieval Approach Based on Composite Features and Graph Matching**", ICCEE09, 2nd International conference on Computer and electrical engineering, pp 466-473, Dubai 2009.
- 34-Riham O. El Safy, Hala H. Zayed, A. El Dessouki "**An Adaptive Steganographic Technique Based on Integer Wavelet Transform**", icnm09, AinShams univ. 2009.
- 35-Ola Mohamed, Hala H. Zayed, Hala H. Zayed M. Hebaishy "**INCREASING THE EFFICIENCY OF IRIS RECOGNITION ALGORITHMS BY using multiple frequencies of Gabor filter**", Fourth International Conference on Intelligent Computing and Information Systems, AinShams univ. 2009.

- 36-Hala H. Zayed and R A. EL-Kammar, "Using Artificial Neural Networks In Solving Diagnosis Problems," Ain Shams Univ., Faculty of Engineering, Scientific Bulletin, Vol. 32, No. 3, Sept. 1997, pp: 381-394.
- 37-Hala H. Zayed, R A. EL-Kammar and Atef Kamel, "*Forecasting Using Artificial Neural Networks Case Study: Short Term Load Forecasting*," Ain Shams Univ., Faculty of Engineering, Scientific Bulletin, Vol. 35, No. 1, March 2000, pp: 361-378.
- 38-Mohammed S. Abbas, Mona M. Mursi, R A. Elkammar and Hala H. Zayed, "*A Fingerprint-Based Biometric System*," Cairo Univ., Faculty of Computers and Information, Egyptian Informatics Journal, Vol. 2, No. 2, December 2001, pp 39-54.
- 39-Hala H. Zayed, "*A Novel System For Unconstrained Handwritten Numeral Recognition*," Ain Shams Univ., Faculty of Engineering, Scientific Bulletin, Vol. 38, No. 2, June 2003, pp: 413-429.
- 40-Mona H. Mahmoud, Ayman El-Dosouky, R. El-Kammar, H. H. Zayed and Salwa Hamada, "*An Explainer of A Multi Agents Educational System*," The 11th International Conference on Artificial Intelligence Applications ,February 2003 (ICAIA 2003), Cairo, pp: 138-146.
- 41-Mona H. Mahmoud, Hala H. Zayed, Ayman El-Dosouky, R. El-Kammar, and Salwa Hamada, "*The Tutoring System of A Multi Agents Educational System*," 2nd Joint International Conference on Information, ICI-2, Mansoura, Egypt, October 2003.
- 42-Hala H. Zayed, " Face Recognition Using Gabor Filters and Modular Neural Networks,". 2nd Joint International Conference on Information, ICI-2, Mansoura, Egypt, October 2003.
- 43-Ayman M. El-Ahwal, Hala H. Zayed and R A. El-Kammar, "*Network Security Using Elliptic Curve Cryptography*," 2nd Joint International Conference on Information, ICI-2, Mansoura, Egypt, October 2003.
- 44-R A. El-Kammar, Hala H. Zayed, and L. A. El-Refae, "*An Off-Line Handwritten Cursive Arabic Recognition System*," The 11th International Conference on Artificial Intelligence Applications ,February 2003 (ICAIA 2003), Cairo, pp: 174-189.
- 45-Hala H. Zayed and R A. El-Kammar, "*A Rotation Invariant Off-Line Signature Verification System*," Ain Shams Univ., Faculty of Engineering, Scientific Bulletin, Vol. 38, No. 4, December 2003.
- 46-R A. El-Kammar, Hala H. Zayed and EhssanM. Abbas "*Application of Expert Systems In The Design Domain: An Active Filter Design*," The 7th International Conference on Artificial Intelligence Applications ,February 1999f (ICAIA 1999), Cairo.
- 47-Hala H. Zayed, "*A High-Hiding Capacity Technique for Hiding data in Images based on K-bit LSB Substitution*," the 13th International Conference on Artificial Intelligence Applications ,February 2005 (ICAIA 2005), Cairo.
- 48-Mohamed Sharaf, Malcolm Shore, Hala Mansour and Hala Zayed, "*EI Tactical Encryption Using a Complex LFSR*," Indonesia Cryptography and Information Security Conference (CISC 2005), Jakarta, 2005.

- 49-Mohamed Sharaf, Hala A.K. Mansour, **Hala H. Zayed** and M L Shore, "***A Complex Linear Feedback Shift Register Design for the A5 Keystream Generator***," the 22nd National Radio Science Conference (NRSC, 2005), March 15-17, 2005, Cairo.
- 50-Mona H. Mahmoud, Ayman El-Dosouky, R. El-Kammar, **H. H. Zayed** and Salwa Hamada, "***A multi Agent Educational System***," the 13th International Conference on Artificial Intelligence Applications ,February 2005 (ICAIA 2005), Cairo.