

# Curriculum Vitae

## Personal Details

Name : Mokhtar Mohammed Hasan  
Date of Birth : 1977  
Place of Birth : Baghdad - Iraq  
Nationality : Iraqi  
Marital Status : Married  
Sex : Male  
Education : PhD in Computer Science  
Work Address : Lecturer in Computer Science Dept.,  
College of Science for Women,  
University of Baghdad (2003-present)  
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## Academic Qualifications

- B.Sc. Degree in Computer Science, College Of Science, Baghdad University, Baghdad, Iraq, (1994-1998), I have secured the first ranked student.
- M.Sc. Degree in Computer Science, College Of Science, Baghdad University, Baghdad, Iraq (1999-2001), second ranked student.
- Ph.D. Degree in Computer Science, Faculty of Science, Banaras Hindu University (2<sup>nd</sup> ranked university in india in 2012 and 1<sup>st</sup> in 2010), Uttar Pradesh, India, (Sep 2009-March 2013), I have secured the first ranked student.

## **Skills**

- 1- January 1996-June 1996: Computer Maintenance at Al-Shabaka Computer Bureau, Baghdad, AL-Mansour City.
- 2- June 1996-March 2003: Computer Maintenance at Baeit Al-Hkma Computer Bureau, Baghdad, AL-Mansour City.
- 3- June 1996-March 2003: Course Trainer at Baeit Al-Hkma Computer Bureau, Baghdad, AL-Mansour City.
- 4- September 1999-September 2000: Labs Trainer for Some Course at Baghdad University, College of Science, Computer Department.
- 5- June 2003: I had worked at IACCI (Iraqi-American Chamber of Commerce and Industry) for a Small Period of Time.
- 6- September 2003-Present: Lecturer in Baghdad University, College of Science for Women, Computer Department.

## **Joural Papers**

- 1) Mokhtar M. Hasan, "Password Security via Neural Networks", Journal of Engineering, University of Baghdad, Iraq, vol. 14 (1):2184-2200, March 2008.
- 2) Noor A. Ibraheem, Mokhtar M. hasan, Shaima M., "Automatic Block Selection for Synthesizing Texture Images using Genetic Algorithms", Baghdad Science Journal, University of Baghdad, Iraq, vol. 6(4):822-830, December 2009.
- 3) Mokhtar M. Hasan, Ahmed A. Abdul Redha, "Applying Quran Security and Hamming Codes for Preventing of Text Modification", Baghdad Science Journal, University of Baghdad, Iraq, vol.8 (2): 408-418, June 2011.
- 4) Mokhtar M. Hasan, Pramod K. Mishra,"HSV Brightness Factor Matching for Gesture Recognition System", International Journal of Image Processing, vol. 4(5):456-467, Malaysia, Oct 2010.
- 5) Mokhtar M. Hasan, Pramod K. Mishra, "Brightness Factor Matching For Gesture Recognition System Using Scaled Normalization", International Journal of Computer Science & Information Technology, vol. 3(2): 35-46, April 2011, doi: 10.5121/ijcsit.2011.3203.
- 6) Mokhtar M. Hasan, Pramod K. Mishra, "Comparative Study for Construction of Gesture Recognition System", International Journal of Computer Science and Software Technology, vol. 4(1): 15-21, January-June 2011.
- 7) Mokhtar M. Hasan, Pramod K. Mishra, "Performance Evaluation of Modified Segmentation on Multi Block for Gesture Recognition System", International Journal of Signal Processing, Image Processing and Pattern Recognition, vol. 4(4), pp. 17-28, December 2011.

- 8) Mokhtar M. Hasan, Pramod K. Mishra, "Improving Morphology Operation for 2D Hole Filling Algorithm", *International Journal of Image Processing*, vol. 6(1): 635-646, Malaysia, Feb 2012.
- 9) Mokhtar M. Hasan, Pramod K. Mishra, "Hand Gesture Modeling and Recognition using Geometric Features: A Review", *Canadian Journal on Image Processing and Computer Vision*, vol. 3(1): 12-26, Canada, March 2012.
- 10) Mokhtar M. Hasan, Pramod K. Mishra, "Real Time Fingers and Palm Locating using Dynamic Circle Templates", *International Journal of Computer Applications*, vol. 41 (6): 33-43, USA, March 2012, doi: 10.5120/5547-7615.
- 11) Mokhtar M. Hasan, Pramod K. Mishra, "Features Fitting using Multivariate Gaussian Distribution for Hand Gesture Recognition", *International Journal of Computer Science and Emerging Technologies*, vol. 3(2):73-80, UK, April 2012.
- 12) Noor A. Ibraheem, Mokhtar M. Hasan, Rafiqul Z. Khan, Pramod K. Mishra, "Understanding Color Models: A Review", *Journal of Science and Technology*, vol. 2 (3): 265-275, April 2012.
- 13) Mokhtar M. Hasan, Pramod K. Mishra, "Novel Algorithm for Multi Hand Detection and Geometric Features Extraction and Recognition", *International Journal of Scientific & Engineering Research*, vol. 3 (5): 1-12, France, May 2012.
- 14) Mokhtar M. Hasan and Pramod K. Mishra, "Robust Gesture Recognition Using Gaussian Distribution for Features Fitting", *International Journal of Machine Learning and Computing*, IACSIT Organization, vol. 2(3):266-273, Singapore, June 2012.
- 15) Mokhtar M. Hasan, Pramod K. Mishra, "Superior Skin Color Model using Multiple of Gaussian Mixture Model", *British Journal of Science*, vol. 6(1): 1-14, UK, July 2012.
- 16) Mokhtar M Hasan, "New Rotation Invariance Features Based on Circle Partitioning", *Journal of Computer Engineering & Information Technology*, vol. 2 (2), USA, July 2013, doi: 10.4172/2324-9307.1000108.
- 17) Mokhtar M. Hasan, Pramod K. Mishra, "Novel Algorithm for Skin Color Based Segmentation using Mixture of GMMs", *Signal & Image Processing : An International Journal (SIPIJ)*, vol. 4 (4): 139-148, India, August 2013, doi: 10.5121/sipij.2013.4412.
- 18) Noor A. Ibraheem, Rafiqul Z. Khan, Mokhtar M. Hasan, "Comparative Study of Skin Color Based Segmentation Techniques", *International Journal of Applied Information Systems (IJ AIS)*, vol. 5 (10): 24-39, USA, August 2013, doi: 10.5120/ijais13-450985.
- 19) Noor A. Ibraheem, Mokhtar M. Hasan, Rafiqul Z. Khan, "An Investigation on Gesture Analysis and Geometric Features Extraction", *International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE)*, vol. 3 (1):387-392, India, January 2015, doi: 10.15680/ijircce.2015.0301037.
- 20) Mokhtar M Hasan, "Variety of Segmentation Techniques for High Accuracy Object", *International Journal of Computer Science*, vol. 3 (1):456-459, India, April 2015.

- 21) Mokhtar M. Hasan, Noor Adnan Ibraheem, "Melting of Multiple GMM and Multiple Histogram in Segmentation, Gesture Recognition", International Journal of Computer Systems, vol. 3 (7):517-520, India, July, 2016.
- 22) Mokhtar M. Hasan, Noor Adnan Ibraheem, "Mixture of GMMs and Mixture of Multiple Histograms for Image Segmentation: A Review", International Journal of Computer Science, vol. 4 (2):739-743, July 2016.
- 23) Mokhtar M. Hasan, "Hand Gesture Recognition using Statistical and Artificial Geometric Methods: A Survey", Computer Applications: An International Journal (CAIJ), Vol.3, No.3, August 2016, doi:10.5121/caij.2016.3301.
- 24) Mokhtar M. Hasan, "Gaussian Fitting Model for Non-Geometric Features in Gesture Recognition System: Analysis Study", International Journal of Computer Applications, vol. 148 (9): 39-41, August 2016, doi: 10.5120/ijca2016911332.
- 25) Noor A. Ibraheem, Mokhtar M. Hasan, "Gaussian Mixture Model for Edge Detection Techniques", International Journal of Computer Science, vol. 4(2):935-941, December 2016.
- 26) Mokhtar M. Hasan, Noor A. Ibraheem, "Edge detection Definition, Modelling and Methodologies", International Journal of Computer Science, vol. 4(2):942-945, December 2016.
- 27) Mokhtar M. Hasan, "Object Filling Using Table Based Boundary Tracking", Journal of College of Education for Women, vol. 28(1): 323-331, March 2017.
- 28) Mokhtar M Hasan, Noor Adnan Ibraheem, "Face Construction and Recognition using Neural Networks", International Journal of Computer Systems (IJCS), vol. 4 (6):109-111, Issue 6, June 2017.

## Conference Papers

- 1) Mokhtar M. Hasan, Pramod K. Mishra, "Steps for Vision Based Gesture Recognition System", National Conference on Emerging Electronic and Computing Systems (NCEECS 2010), Indore, India, 2-3 April 2010, pp. 1-12.
- 2) Mokhtar M. Hasan, Pramod K. Mishra, "A Powerful and Weakness Points for Gesture Recognition Techniques", The 6<sup>th</sup> International Conference on Multimedia Information Technology and Applications (MITA 2010), Kathmandu, Nepal, 23-25 August 2010, pp. 144-149.
- 3) Mokhtar M. Hasan, Pramod K. Mishra, "Rotation Variance Remedy for Gesture Recognition System", International Science and Technology Conference (ISTEC 2010), Famagusta, Cyprus, 27-29 October 2010, pp.613-619.
- 4) Mokhtar M. Hasan, Pramod K. Mishra, "Gesture Recognition using Modified HSV Segmentation", IEEE International Conference on Communication Systems and Network Technologies(CSNT 2011), Jammu, India, 3-5 June 2011, pp.328-332, doi: 10.1109/CSNT.2011.75.

- 5) Mokhtar M. Hasan, Pramod K. Mishra, “Connected Boundary Region Tracing for Object Hole Filling”, International Conference on Advances in Engineering and Technology (ICAET 2011), Bhubaneswar, India, 26th November 2011, pp.67-72.
- 6) Hasan, M.M., Mishra, P.K., “Direction Analysis Algorithm using Statistical Approaches”, SPIE 4th International Conference on Digital Image Processing, 8334-28, 83340L (2012), Malaysia, April 2012, doi: 10.1117/12.946046.
- 7) Noor A. Ibraheem, Mokhtar M. Hasan, “Recent Image Edge Detection Methods based Statistical Approaches”, proceedings of Third Women and Science National Conference, pp. 297-305, December 2016, Baghdad, Iraq.

## **Experience**

- 1- Building a Wireless Database Management System for Managing and Coordinating the Contractors and Transactions using SQL Server 2005 Standard Edition(with vb).
- 2- Data Base Creation and Managemant using Access 1997, 2003,and 2007.
- 3- Data Base Creation and Managemant using Microsoft SQL Server 2000, 2005, and 2008.
- 4- Web Site Desgin and Development using ASP Server and Access Database.
- 5- Web Site Desgin and Development using ASP Server and SQL Server Database.
- 6- Applet Programming using Java Language.
- 7- Programming Language: Delphi Language, Visual Basic, VB.Net, Java Language.
- 8- Web Tools: Dreamweaver.

## **Project Supervision**

I have undertaken final year undergraduate project supervision at Baghdad University, College of Science for Women, Computer Department, those projects are:

- 2005-2006: Image Puzzling using Visual Basic 6.0  
: Human Vision Accuracy Test using Visual Basic 6.0
- 2006-2007: Spelling Detection using Neural Networks  
: Image Encoding and Decoding
- 2007-2008: Employees Salary System using SQL Server 2005.  
: Database Structure Viewer using Visual Basic 6.0.
- 2008-2009: ASP and SQL Server 2008 for Mobile Marketting Web Site.  
: Laplacian Edge Detection using Neural Network Technique(vb.net).
- 2013-2014: Object Classification using Histogram Based Method.

: Performance Evaluation of the GMM and Histogram Methods for Segmentation.

- 2014-2015: File Browser using android Operating System  
Image Viewer using android Operating System
- 2015-2016: Arithmetic Expression Compilation and Calculation
- 2017-2018: Text in Text Steganography using Text Expansion.

## **Courses Taught**

- 1- Computer Architecture, Second Class, Computer Science, 2003-2009.
- 2- Advance Computer Architecture, Third Class, Computer Science, 2005-2008, 2016-2017.
- 3- Operating Systems, Fourth class, Computer Science, 2005-2009, 2015-2017.
- 4- Simulation and Modeling, Third Class, 2006-2007.
- 5- Advanced Algorithms, Third Class, Computer Science, 2013-2014.
- 6- Data Compression, Fourth Class, Computer Science, 2013-2014.
- 7- Multimedia, Fourth Class, Computer Science, 2013-2015.
- 8- Digital Image Processing, Third Class, Computer Science, 2013-2017.

## **Pioneered Jobs That I Have done**

- 1- Designing and implementing Import-Export Database system and applied it in the cultural relations unit since 1.9.2013, quality assurance section since 1.6.2014 and then in whole faculty since 21.2.2016.
- 2- Installation and Programming the Fingerprint Software system since 1.10.2014.
- 3- Designing and Implementing Leave Database system and applied it since 1.10.2014.
- 4- Designing special internal proforma for each unit, section in the faculty and the Formal Proforma for the college.
- 5- Member of Editorial Board of Baghdad Science Journal 2014-2015.
- 6- College Representative for Stamp Designing for each of Computer Science Dept, quality assurance section, finger print unit in the year 2014-2015.
- 7- Designing and Implementing the Automatic Deployment-Receiving database system and applied it since 10.03.2015.
- 8- Development and more facilities adding for Automatic Deployment-Receiving database system and applied it since 21.2.2016.

## **Positions That I Took Over**

- 1- Supervisor of the Web Site for the College of Science for Women from 20 June 2013 to 2 March 2014.
- 2- Manager of Cultural Relations and Scientific Affairs in CSW, BU, from 17 September 2013 to 1 March 2014.
- 3- Manager of Quality Assurance and Academic Performance in CSW, BU since 1 March 2014.
- 4- Member in Advisory Office Comittee, CSW, BU, since 20.1.2015.
- 5- College Representative with Bin-Sina Center for Electronic Education since 22.2.2015.
- 6- Manager of Internet connection in the college since 1.9.2014.
- 7- Tecknical Manager of Plagairisim Detection System (turnitin) since 1.4.2016.

## **Scientific Activities as a Presenter or Trainer**

- 1- Presented, Workshop entitled “ISO 17025 Specifications and How to Apply it”, Wednesday, 27.5.2015, on Continuous Education Auditorium, College of Science for Women, University of Baghdad.
- 2- Presented, workshop entitled “Academic Evaulation Proforma for year 2014-2015”, Tuseday 6.10.2015, CSW, BU.
- 3- Trainer, training course entitled “ electronic evaluation of faculty member for the year 2014-2015”, at the wafaa auditorium, college of economy, university of baghdad, 17.3.2016.
- 4- Trainer, training course entitled “ electronic evaluation of faculty member for the year 2014-2015”, at the continuous education auditorium, college of science for women, university of baghdad, 24.3.2016.
- 5- Trainer, training course entitled “ quality in electronic evaluation of faculty member for the year 2014-2015”, at the continuous education auditorium, college of science for women, university of baghdad, 5.4.2016.
- 6- Presenter, workshop entited “accreditation and its elements”, college of science for women, university of baghdad, 26.5.2016.

## **Papers that I evaluated**

- 1- Journal of baghdad for science, college of science for women, university of baghdad, “Development of a passive immunity algorithm to detect intrusion in the data set”, dated 4.10.2015.
- 2- Journal of baghdad for science, college of science for women, university of baghdad, “design and simulation of association protocol in cashe memory using IES” , sent to me in 29.5.2016.
- 3- Journal of baghdad for science, college of science for women, university of baghdad, “Human Computer Interace for wheelchair movement” , sent to me in 19.7.2016.
- 4- Journal of baghdad for science, college of science for women, university of baghdad, “Algorithm to convert non-affected properties on a scale with quick rounding to nearest neighbor”, dated 31.5.2017.
- 5- Journal of college of education for women, college of education for women, university of baghdad, “Employ social networks in the fight against electronic terrorism and extremism”, dated 11.6.2017.

## **Languages**

- 1- Arabic - Mother Tongue.
- 2- English - Fluent

## **Professional Memberships**

- Member of the Iraqi Computer Science Association since July 1999.
- Member of the Iraqi League for Universities Lecturers since September 2005.