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Former **VP. for Development & Quality**

King Saud University

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College of Computer and Information Science (CCIS)



**Prof. Dr. Hatim A. Aboalsamh, Ph.D.**, SM.IEEE, SM.ACM, FL.BCS, FL.ACEEE, FL.ENW

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### Education

- **Bachelor Degree:** Civil & Structural Engineering, 1980. University Of Miami, USA. (1<sup>st</sup> in Grad. Class)
- **Masters Degree:** Computer Science, 1982. University of Miami, USA.
- **Ph.D.:** Computer Engineering & Science, 1987. University of Miami, USA.  
Thesis Title: "Architectural Approaches to the Design of RISC Oriented LISP Machines"

### Important Appointments during the Last 20 years

*Chairman of Department of Computer Science, CCIS, KSU (At Present)*

*Editor-in-chief - Saudi Computer society Journal (At present)*

1. Vice Rector for Development and Quality-King Saud University (KSA), Riyadh, KSA (2006-2009)
2. Professor of Computer Science (2009)
3. Team Supervisor– Strategic plan for king Saud University
4. Team Supervisor–Institutional Accreditation Committee for king Saud University
5. Editor-in-chief, KSU-Journal of Computer Sciences (2005-2008)
6. Dean of the college of Computer & Information Sciences (1997-2004)
7. Associate Editor-in-chief-Saudi Computer society Journal (1995-1997)
8. Saudi Computer Society Vice President (1994-1997)

### Important Appointments at College of Computer & Information Sciences, King Saud University

1. Professor of Computer Science (2009)
2. Editor-in-chief, King Saud University -Journal of Computer Sciences (2005-2008)
3. Team leader – PhD program development and implementation (2005-2008)
4. Dean of the College (1997-2004)
5. Vice Dean of the College (1991-1997)
6. Associate Professor - Computer Science Department (1994--2009)
7. Chairman of Computer Technology Department (1994--1997)
8. Assistant Professor Computer Engineering Department (1988-1992)
9. Supervisor of Practical Training Program (1988-1997)

### Appointments at Saudi Computer Society

1. Editor-in-chief - Saudi Computer society Journal (2013 to date)
2. Vice President (1994-1997)
3. Associate Editor-in-chief - Saudi Computer society Journal (1995-1997)
4. Member of Board of Directors (1992-1997)

## **Consulting Experience**

1. Head of Consulting team to the Ministry of Transportation (*2002 to date*)
2. Member of Equalization Committee (Ministry of Higher Education) (*1997-2007*)
3. Consultant to Ministry of Transportation (*2004-2005*)
4. Consultant to Ministry of Higher Education (*1998-1999*)
5. Strategic planning committee- Prince Salman Center for Handicapped research - Information Center (*1995*).
6. Chairman of Organizing Committee: 2nd. Computer arabization Symposium, King Saud University (*27 March 1994*).
7. Consultation to Ministry of Health (*1993*).
8. Consultation to Riyadh Bank (*1993*).
9. Consultation to Ministry of Defence (*1992*).
10. Promotion Examination Committee-National Computer Center- Ministry of Interior (*1991-1992*)
11. Member of Organizing Committee for 13th, 14th National Computer Conferences, Saudi Computer society.
12. Referee to many professional national & international Journals, Conferences, and symposiums.

## **Professional Memberships**

1. Fellow Member - British Computer Society (*BCS*) Chartered IT institute
2. Fellow member - Association of Computer, Electrical & Electronic Engineers (*ACEEE*)
3. Fellow member - Engineers Network Association (*ENW*)
4. Senior Member - Association of Computing Machinery, USA (*ACM*)
5. Senior Member - International Association of Computer Science and Information Technology (*IACSIT*). Singapore.
6. Senior Member - Institute for Electrical & Electronic Engineers, USA (*IEEE*).
7. Saudi Computer Society (*SCS*), KSA.

## **Awards and Honours**

1. *King Saud University Golden Medal for Distinguished Service*
2. Marquis Who's Who in Science & Engineering *1996*.
3. Marquis Who's Who in the World 12th, 13th ed. *1995, 1996*.
4. Saudi Computer Society Decree of Honor - (*1992*).
5. First in Graduating Class *1980* (Civil engineering), University Of Miami.
6. Eastman Kodak award for Physics, University Of Miami, *1979*.
7. Phi Capa Phi Honour Society, USA.
8. Golden Key Honour Society, USA.
9. Tau Beta Bi Honour Society, USA.

## **Other Interests and Posts**

1. Vice President –Saudi Federation for Automotive Sports (*2007 to date*)
2. Assistant Director – Officer- Harley Davidson owners Group – Riyadh Chapter (*2007-2009*)
3. Safety Officer – Harley Davidson owners Group – Riyadh Chapter (*2005-2007*)
4. Regional Referee – Saudi Taekwondo Federation (4th Dan – Black belt)

## **Publications**

1. Patents = *02*
2. Total number of Journal Publications = *44*
3. Total number of Conference Publications = *67*
4. Proceedings Editor for Springer Publishing House = *02*
5. Book Chapters = *01*
6. Journal Publications under review = *03*

## **Patents**

- [1] Qazi Emad-ul-Haq, Muhammad Hussain, Hatim A. Aboalsamh, "Method of Classifying Raw EEG Signals", US Application No. 15/889,110. Filed: 5 Feb, 2018, Issue Date: 28 May, 2019. US Patent No: US10299694 B1.

- [2] Fahman Saeed, Muhammed Hussain, Hatim Aboalsamh, "Method for fingerprint classification", US Application No. 15/181,357. Filed: 13 Jun, 2016, Issue Date: 27 Dec, 2016. US Patent No. US9530042 B1.

### **List of Publications in Journals:**

- [1] Sofien Gannouni, Arwa Aledaily, Kais Belwafi, and Hatim Aboalsamh, "Adaptive Emotion Detection Using the Valence-Arousal-Dominance Model and EEG Brain Rhythmic Activity Changes in Relevant Brain Lobes", IEEE Access, Vol. 8, no. 1, pp. 67444-67455, 2020, DOI: 10.1109/ACCESS.2020.2986504.
- [2] M. Saddique, K. Asghar, U. I. Bajwa, M. Hussain, H. A. Aboalsamh and Z. Habib, "Classification of Authentic and Tampered Video Using Motion Residual and Parasitic Layers," IEEE Access, Vol. 8, no. 1, pp. 56782-56797, 2020, DOI: 10.1109/ACCESS.2020.2980951.
- [3] Qazi Emad-ul-Haq, Muhammad Hussain, Hatim Aboalsamh, "An efficient intelligent system for the classification of electroencephalography (EEG) brain signals using nuclear features for human cognitive tasks", Journal of Intelligent & Fuzzy Systems, Vol. 37, no. 1, pp. 913-928, 2019. doi: 10.3233/JIFS-181586
- [4] Kais Belwafi, Sofien Gannouni, Hatim Aboalsamh, Hassan Mathkour, Abdelfattah Belghith, "A Dynamic and Self-adaptive Classification Algorithm for Motor Imagery EEG Signals", Journal of Neuroscience Methods, Vol 327, 2019.
- [5] H. Alshehri, M. Hussain, H. A. Aboalsamh, Qazi Emad-Ul-Haq, M. AlZuair and A. M. Azmi, "Alignment-Free Cross-Sensor Fingerprint Matching Based on the Co-Occurrence of Ridge Orientations and Gabor-HoG Descriptor," in IEEE Access, vol. 7, pp. 86436-86452, 2019.
- [6] Aqil M. Azmi, Manal N. Almutery, Hatim A. Aboalsamh, "Real-Word Errors in Arabic Texts: A Better Algorithm for Detection and Correction", IEEE/ACM Transactions On Audio, Speech, And Language Processing, Vol. 27, No. 8, 2019. doi: 10.1109/TASLP.2019.2918404
- [7] Amani Alahmadi, Muhammad Hussain, Hatim A Aboalsamh, Mansour Zuair, "PCAPool: unsupervised feature learning for face recognition using PCA, LBP, and pyramid pooling", Pattern Analysis and Applications, 2019. <https://doi.org/10.1007/s10044-019-00818-y>
- [8] Ihsan Ullah, Muhammad Hussain, Emad-ul-Haq Qazi, Hatim Aboalsamh, "An Automated System for Epilepsy Detection using EEG Brain Signals based on Deep Learning Approach". Expert Systems with Applications, doi: 10.1016/j.eswa.2018.04.021, April 2018.
- [9] H. AlShehri, Muhammad Hussain, Hatim Aboalsamh, M. AlZuair, "A Large-Scale Study of Fingerprint Matching Systems for Sensor Interoperability Problem". Sensors, 18, 1008, March 2018.
- [10] Helala AlShehri, Muhammad Hussain, Hatim Aboalsamh, Mansour AlZuair, "Cross-Sensor Fingerprint Matching Method based on Orientation, Gradient, and Gabor-HoG Descriptors with Score Level Fusion", IEEE Access, 2018
- [11] Emad Ul Haq Qazi, Muhammad Hussain, Hatim Aboalsamh, Aamir Malik, HafeezUllah Amin, Saeed Bamatraf, "Single Trial EEG Patterns for the Prediction of Individual Differences in Fluid Intelligence", Frontiers in Human Neuroscience, vol. 10, pp. 687-706, Jan 2017.
- [12] Sofien Gannouni, Nourah Alangari, Hassan Mathkour, Hatim Aboalsamh, Kais Belwafi, "BCWB: A P300 Brain-Controlled Web Browser", International Journal on Semantic Web and Information Systems (IJSWIS), vol. 13, no. 2, pp. 55-73, Jan 2017.
- [13] Salabat Khan, Muhammad Hussain, Hatim Aboalsamh, George Bebis, "A comparison of different Gabor feature extraction approaches for mass classification in mammography", Multimedia Tools and Applications, vol. 76, no. 1, pp. 33-57, Jan 2017.

- [14] Amani Alahmadi, Muhammad Hussain, Hatim Aboalsamh, Ghulam Muhammad, George Bebis, and Hassan Mathkour, "Passive Detection of Image Forgery using DCT and Local Binary Pattern," *Signal, Image and Video Processing*, 2016. DOI 10.1007/s11760-016-0899-0
- [15] Salabat Khana, Muhammad Hussain, Hatim Aboalsamh, Hassan Mathkour, George Bebis, Mohammed Zakariah, "Optimized Gabor features for mass classification in mammography", *Applied Soft Computing*, vol. 44, pp. 267–280, 2016.
- [16] Ghulam Muhammad, Muhammad Hussain, Muneer Al-Hammadi, Hatim Aboalsamh, Hassan Mathkour, and Amir Saeed Malik, "Short-term and Long-term Memory Analysis of Learning Using 2D and 3D Educational Contents," *Behaviour & Information Technology*, vol. 35, no. 11, pp. 958-967, 2016. DOI: 10.1080/0144929X.2016.1212094
- [17] M.S. Islam, N. Ammour, N. Alajlan, H. Aboalsamh, "Rhythm-based Heartbeat Duration Normalization for Atrial Fibrillation Detection," *Computers in Biology and Medicine*, vol. 72, pp. 160-169, 2016. DOI: 10.1016/j.combiomed.2016.03.015
- [18] Qazi Emad-ul-Haq, Hatim Aboalsamh, Abdelfettah Belghith, Muhammad Hussain, Wadood Abdul, Mostafa H. Dahshan and Sanaa Ghouzali, "Challenges and Solutions for Internet of Things Driven by IPv6". *KSII Transactions on Internet and Information Systems*, vol. 9, no. 12, pp. 4739-4758, Dec 2015.
- [19] Qazi Emad-ul-Haq, Hatim Aboalsamh, Muhammad Hussain, Wadood Abdul, Sanaa Ghouzali, "Multimedia Communication in Wireless Sensor Networks - A Review Paper", *Journal of Advances in Computer Networks*, 2015. [ISSN: 1793-8244]
- [20] Saeed Bamatraf, Muhammad Hussain, Hatim A. Aboalsamh, Qazi Emad-UI-Haq, Aamir Saeed Malik, HafeezUllah Amin, Hassan Mathkour, Ghulam Muhammad and Hafiz Muhammad Imran, "A System for True and False Memory Prediction based on 2D and 3D Educational Contents and EEG Brain Signals," *Computational Intelligence and Neuroscience*, vol. 2016, Article ID 842687, pp. 11, 2016. DOI: 10.1155/2016/8491046
- [21] Muhammad Hussain, Sahar Qasem, George Bebis, Ghulam Muhammad, Hatim Aboalsamh, and Hassan Mathkour, "Evaluation of Image Forgery Detection Using Multi-Scale Weber Local Descriptors". *International Journal on Artificial Intelligence Tools*, vol. 24, no. 4, Aug 2015.
- [22] Ihsan Ullah, Hatim Aboalsamh, Muhammad Hussain, Ghulam Muhammad, George Bebis "Gender Classification from Facial Images Using Texture Descriptors", *Journal of Internet Technology*, vol.15, no. 5, pp. 801-812, Oct 2014.
- [23] IhsanUllah, Muhammad Hussain, HatimAboalsamh, A. El-Zaart, "Novel Technique for Mammogram Image Segmentation using Moment Preserving", *International journal on information*, Tokyo, Japan, vol. 16, no. 5, pp. 3155-3164, May 2013.
- [24] IhsanUllah, Muhammad Hussain, HatimAboalsamh, Ghulam Muhammad, Anwar M. Mirza, George Bebis, "Gender Recognition from Face Images with Dyadic Wavelet Transform and Local Binary Pattern", *International Journal of Artificial Intelligence Tools*, vol. 22, no. 6, pp. 1360018 (18 pages), Dec 2013.
- [25] IhsanUllah, HatimAboalsamh, Muhammad Hussain, Ghulam Muhammad, Anwar M. Mirza, and George Bebis, "Gender Recognition from Face Images with Local LBP Descriptor", *Archive of Sciences Journal*, vol. 65, no. 9, pp. 353-360, Sept 2012.
- [26] IhsanUllah, Maqsood Mahmud, Hatim A. Aboalsamh, AbdulrahmanAbdulkarimMirza, Naveed Khan, Abdul Hanan Bin Abdullah, Mohammad Yazid Bin Idris, and Ihab. Al.Rassan, "Securing the Wireless Sensor Network by Iris Template", in *Science Series Data Report*, vol. 4, no. 9, pp. 80-88, Sept 2012.
- [27] H. A. Aboalsamh, "A Multi Biometric System Using Combined Vein and Fingerprint Identification", *WSEAS Transactions on Computers*, vol. 5, no. 1, pp. 29-36, 2010 (Non ISI).
- [28] M. F. M. Mursi, G.M.R. Assassa, H. A. Aboalsamh, and K .Alghathbar, "A DCT-Based Secure JPEG Image Authentication Scheme", *International Journal of Electrical and Computer Engineering*, vol. 5, no. 4, 2010. (Non ISI)

- [29] H. A. Aboalsamh, "A Join Algorithm for Large Databases: A Quadrees Structure Approach", *Computer and Information Sciences Journal*, King Saudi University, vol. 22, pp. 1-12, July 2010. (Non ISI)
- [30] H. A. Aboalsamh, "A Potable Biometric Access device using Dedicated Fingerprint Processor", *WSEAS Transactions on Computers*, vol. 9, no. 8, pp. 878-887, Aug 2010. (Non ISI)
- [31] H. A. Aboalsamh, "Human Face Recognition Using Eigen and Fisher Faces", *Egyptian Computer Science Journal*, Egypt, vol. 31, no. 1, pp. 66-76, Jan 2009. (Non ISI)
- [32] H. A. Aboalsamh, "Evolutionary Face Recognition Using Principle Component Analysis", *Egyptian Computer Science Journal*, Egypt, vol. 31, no. 2, Jan 2009. (Non ISI)
- [33] H. A. Aboalsamh, "Vein and Fingerprint Biometrics Authentication- Future Trends", *International Journal of Computers and Communications*, University Press, vol. 3, no. 4, pp. 67-75, 2009. (Non ISI)
- [34] H. A. Aboalsamh, "IASDM: A Novel Incremental Approach for Stream Data Mining", *Alexandria Engineering Journal*, University of Alexandria, Egypt, 2009 (Non ISI)
- [35] H. Mathkour, H. A. Aboalsamh, G. M. R. Assassa, H. Al Dossari, "Use of Extreme Programming in Software Engineering Education : A Pilot Study", *Engineering Research Journal*, Faculty of Engineering, Minoufiya University, Egypt, vol. 31, no. 1, pp. 39-47, Jan 2008. (Non ISI)
- [36] H. A. Aboalsamh, A.M. Hafez and G.M. R. Assassa, "An Efficient Stream Mining Technique", *WSEAS Transactions on Information Science & Applications*, vol. 5, no. 7, pp. 1272- 1281, July 2008. (Non ISI)
- [37] H. A. Aboalsamh, "A Novel Boolean Algebraic Framework for Association and Pattern Mining", *WSEAS Transactions on Computers*, Stevens Point, Wisconsin, USA, vol. 7, no. 8, pp. 1352-1361, Aug 2008. (Non ISI)
- [38] H. A. Aboalsamh, H. Mathkour, S. Dokheekh, Mona Mursi and G. Asassa, " An Improved Steganalysis Approach for Breaking the F5 Algorithm". *Wseas Transactions on Computers*, vol. 9, no. 7, pp. 1448-1456, Sept 2008.
- [39] H. A. Aboalsamh, S. Dokheekh, H.Mathkour, G.Asassa, " Breaking the F5 Algorithm: An Improved Approach". *Egyptian Computer Science Journal*, Egypt, vol. 29, no. 1, pp. 1-9, Jan 2007.
- [40] H. A. Aboalsamh, "Computer Graphics: A Curriculum Development Approach", *Journal of Mathematical Modelling and Scientific Computing*, vol. 4, 1994. (Non ISI)
- [41] H. A. Aboalsamh, "Polygon Clipping Modelling for High Level Language Applications", *Journal of Mathematical Modelling and Scientific computing*, vol. 4, 1994. (Non ISI)
- [42] H. A. Aboalsamh, "Analysis of Graphics Elements for Efficient High Level Language Execution: A Practical Approach", *Journal of System Analysis, Modelling and Simulation*, vol. 12, pp. 81-87, 1993. (Non ISI)
- [43] H. A. Aboalsamh, "Approaches to the Analysis of Graphics Elements for Efficient High Level Language Execution", *Computational System Analysis (Book)* by AchimSydow, Elsevier Science Publ. Co., Amsterdam, pp. 351-356, 1992.
- [44] B. Furht, H. A. Aboalsamh, W. Chia, Y. Lai, " Multiple Register Window File for Lisp-oriented RISC Architectures", *Journal of Microprocessors and Microsystems*, vol. 12, no. 4, pp. 187-196, May 1988.

### **List of Publications in Conferences:**

- [1] M. Hussain, H. Aboalsamh, S. Bamatraf and Emad-ul-Haq Qazi, "Color Histogram Features for the Classification of Brain Signals using 2D and 3D Educational Content," 2019 2nd International Conference on Computer Applications & Information Security (ICCAIS), Riyadh, Saudi Arabia, 2019, pp. 1-6. doi: 10.1109/CAIS.2019.8769537

- [2] Fahman Saeed, Muhammad Hussain, Hatim A Aboalsamh, "Classification of Live Scanned Fingerprints using Histogram of Gradient Descriptor", 21st Saudi Computer Society National Computer Conference (NCC), 1-5 , 2018.
- [3] Fahman Saeed, Muhammad Hussain, Hatim A Aboalsamh, "Classification of Live Scanned Fingerprints using Dense SIFT based Ridge Orientation Features", 1st International Conference on Computer Applications & Information Security (ICCAIS), 2018.
- [4] Qazi Emad-ul-Haq, Muhammad Hussain, Hatim Aboalsamh, Saeed Bamatraf, "An Intelligent System to Classify Epileptic and Non-Epileptic EEG Signals", SITIS 2016 – The 12th International Conference on Signal Image Technology & Internet Systems, Naples, Italy, 28 Nov – 01 Dec 2016.
- [5] Mariam Busaleh, Muhammad Hussain, Hatim A. Aboalsamh, Mansour Zuair, George Bebis, "False Positive Reduction in Breast Mass Detection using the Fusion of Texture and Gradient Orientation Features," ISVC'16, Las Vegas, USA, 12-14 Dec, 2016.
- [6] Raqinah Alrabiah, Muhammad Hussain, Hatim A. Aboalsamh, Mansour Zuair, George Bebis, "PH-BRINT: Pooled Homomorphic Binary Rotation Invariant and Noise Tolerant Representation for Face Recognition under Illumination Variations", ISVC'16, Las Vegas, USA, 12-14 Dec, 2016.
- [7] Hussain, M., Saeed Bamatraf, Hatim Aboalsamh, Hassan Mathkour, Aamir Saeed Malik, Hafeez Ullah Amin, Ghulam Muhammad, Emad-UI-Haq Qazi, "A System based on 3D and 2D Educational Contents for True and False Memory Prediction using EEG Signals," 7th International IEEE EMBS Neural Engineering Conference (NER'15), The Corum, Montpellier, France, 22-24 Apr, 2015.
- [8] Hussain M., Sarah Al-Otaibi, Hatim Aboalsamh, George Bebis, Ghulam Muhammad, "Nonsubsampled Contourlet Transform Based Descriptors for Gender Recognition," Proc. CGIV 2014, IEEE Computer Society Press, Singapore, 6-8 Aug, 2014.
- [9] Hussain, M., Sahar Q. Saleh, Hatim Aboalsamh, Ghulam Muhammad, and George Bebis "Comparison between WLD and LBP Descriptors for Non-intrusive Image Forgery Detection", Proc. INISTA 2014, IEEE Computer Society Press, Alberobello, Italy, pp. 197 – 204, 23-25 June, 2014.
- [10] Qazi Emad-ul-Haq, Hatim Aboalsamh, Jalal Al-Muhtadi, Muhammad Hussain, Saeed Bamatraf, "A Comprehensive Survey on Network Intrusion Detection Techniques," International Conference on Networks Security (ICNS2014) Shanghai, China, 26-27 Sept, 2014.
- [11] Saeed Bamatraf , Hatim Aboalsamh, Muhammad Hussain, Hassan Mathkour, Qazi Emad-UI-Haq, Aamir Malik, HafeezUllah Amin, "Studying the Effects of 2D and 3D Educational Contents on Memory Recall Using EEG Signals, PCA and Statistical Features," in Proc. AIMS 2015, IEEE Computer Society, Madrid Spain, pp. 187-192, 18-20 Nov, 2014.
- [12] Amani A. Alahmadi, Hussain M., Hatim Aboalsamh, Ghulam Muhammad, George Bebis, "Splicing Image Forgery Detection Based on DCT and Local Binary Pattern", Proc. GlobalSIP 2013, IEEE Computer Society Press, Austin, Texas, USA, pp. 253-256, 3-5 Dec, 2013.
- [13] Anwar M. Mirza, Hussain M., Huda Almuzaini, Ghulam Muhammad, Hatim Aboalsamh and George Bebis, "Gender Recognition using Fusion of Local and Global Facial Features", Advances in Visual Computing, LNCS Springer, Crete, Greece, vol. 8034, pp. 493-502, 29-31 July, 2013.
- [14] Hussain, M., Sarah Al-Otaibi, Ghulam Muhammad, Hatim Aboalsamh, George Bebis, Anwar M. Mirza, "Gender Recognition Using Nonsubsampled Contourlet Transform and WLD Descriptor", Image Analysis, LNCS Springer, vol. 7944, Proc. SCIA Espoo, Finland, pp. 373-383, 17-20 June, 2013.
- [15] Ghulam Muhammad, Faten A. Alomar, Hussain, M., Anwar M. Mirza, Hatim Aboalsamh, and George Bebis, "Gender Recognition from Faces Using Bandlet and Local Binary Patterns", Proc. IWSSIP 2013, IEEE Computer Society Press, Bucharest, Romania, pp. 59 – 62, 7-9 July, 2013.

- [16] Taghreed Alamri, Hussain, M., Ghulam Muhammad, Hatim Aboalsamh, George Bebis and Anwar M. Mirza, "Category Specific Face Recognition Based On Gender", Proc. ICISA 2013, IEEE Computer Society Press, Pattaya, Thailand, pp. 214-217, 24-26 June 2013.
- [17] Hatim A. Aboalsamh, Fatimah Alanizi, Mashael Bin Sabbar, Sumayah, AlRabiaah, "Security in Ubiquitous Computing: A Work in Progress", ICWN'13: The 12th International Conference on Wireless Networks, Las Vegas, USA, 22-25 July, 2013.
- [18] Eman Albilali, Hatim Aboalsamh, Areej Al-Wabil, "Comparing Brain-Computer Interaction and Eye Tracking as Input Modalities: An Exploratory Study". International Conference on Current Trends in Information Technology, Dubai (CTIT Dubai 2013), pp. 232-236, 11-12 Dec 2013.
- [19] Ihsan Ullah, Muhammad Hussain, Ghulam Muhammad, Hatim Aboalsamh, George Bebis and Anwar M. Mirza, "Gender Recognition From Face Images With Spatial WLD Descriptor", in 19th International Conference on Systems, Signals and Image Processing, (IWSSIP12), pp. 417-420, 13-15 April 2012.
- [20] Ihsan Ullah, Muhammad Hussain, Ghulam Muhammad, Hatim Aboalsamh, Anwar M. Mirza, and George Bebis, "Gender Recognition from Face Images with Dyadic Wavelet Transform and Local Binary Pattern", in Advances in Visual Computing Lecture Notes in Computer Science, vol. 7432, pp. 409-419, 16-18 July, 2012.
- [21] Ghulam Muhammad, Muhammad Hussain, Fatimah Alenezy, George Bebis, Anwar M. Mirza, and Hatim Aboalsamh, "Race Recognition from Face Images Using Weber Local Descriptor", in 19th International Conference on Systems, Signals and Image Processing, (IWSSIP 12), pp. 421-424, 13-15 April, 2012.
- [22] Ghulam Muhammad, Muhammad Hussain, Fatmah Alenezy, Anwar M. Mirza, George Bebis, and Hatim A. Aboalsamh, "Race Recognition Using Local Descriptors", in IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP), pp. 1525-1528, 25-30 Mar, 2012.
- [23] Dania A. AlOmar, Hatim A. Aboalsamh, "Interpreting reading patterns in Arabic Vowelization for dyslexic children using eye tracking", in 2nd International Conference on Advanced Computing and Communications (ACC'12), Los Angeles, California, USA, 27-29 June, 2012.
- [24] Ohood S. Althobaiti and Hatim A. Aboalsamh, "An Enhanced Elliptic Curve Cryptography for Biometric". IEEE, 7th International Conference on Computing and Convergence Technology (ICCCT), pp. 1048-1055, 3-5 Dec, 2012.
- [25] H. A. Aboalsamh, F.S. Alrashed, H. T. AL Hashimi, N. Alkhamis, "Virtual Reality System Specifications for Pain Management therapy", Annual IEEE International Conference on Bioinformatics and Bioengineering, Taichung, Taiwan, 24-26 Oct, 2011.
- [26] F. J. Mohdar, M. S. Al-Otaibi, H.A. Aboalsamh, "Audio Compression Testing Tool for Multimedia Applications", Image Processing and Communications Challenges 3, Advances in Intelligent and Soft Computing, Springer-Verlag Berlin Heidelberg, vol. 102, pp. 409-418, 2011.
- [27] M. A. Al Sheikh, H. A. Aboalsamh, and A. Albarrak, "Migration of Legacy Applications and Services to Service-Oriented Architecture (SOA)", The IEEE 2011 International Conference and Workshop on Current Trends in Information Technology (CTIT'11), Dubai, UAE, 26-27 Oct, 2011.
- [28] R. Aljebly, and H. A. Aboalsamh, "E-government aSurvey on Achieving Advanced Electronic Government Services", The IEEE 2011 International Conference and Workshop on Current Trends in Information Technology (CTIT'11), Dubai, UAE, 26-27 Oct, 2011.
- [29] A. Al-Edaily, N. Al-Zaben, S. Al-Ghamdi, H. A. Aboalsamh, "Improved Distributed Genetic Algorithms Based on Their Methodologies and Processes", Proceedings of the European Computing Conference, Paris, France, pp. 415- 420, 28-30 April 2011.
- [30] M. Al-Ammar, R. Al-Majed, H. A. Aboalsamh, "Online Handwriting Recognition for the Arabic Letter Set", Recent Researches in Communications and IT Conference, Corfu Island, Greece, pp. 42-49, 14-17 July, 2011.

- [31] F. S. Alrashed, H.T. AL Hashimi, H. A. Aboalsamh, N.Alkhamis, "Virtual Reality as a Complementary Therapy For Pain Management", IADIS e-Health, Rome, Italy, 20-22 July, 2011.
- [32] I. Ullah, A. El-Zaart, H. A. Aboalsamh, "Fast Moment Preservation for Image Thresholding Method Using a Mixture of Gamma Distributions", WORLDCOMP'11, Las Vegas, Nevada, USA, pp. 582-587, 18-21 July, 2011.
- [33] H. A. Aboalsamh, "Access Control Using Fingerprint Authentication Processor and RFID", Proceedings of the 9th WSEAS International Conference on Telecommunications and Informatics, Catania, Italy, pp. 166-170, 29-31 May, 2010.
- [34] H. A. Aboalsamh, "Recent Advancements in Biometrics: Vein and Fingerprint Authentication", Latest Trends on Computers (Volume II), 14th WSEAS International Conference on Computers, Corfu Island, Greece, pp. 459-462, 23-25 July, 2010.
- [35] H. A. Aboalsamh, "Vein and Fingerprint Identification Multi Biometric System: A Novel Approach", International conference of the IEEEAM- Applied Computer Science (ACS), Malta, pp. 125-129, 18-20 Sept, 2010.
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