

## **Personal Information**

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## **Education:**

- Bachelor Degree: Civil & Structural Engineering, 1980. University Of Miami, USA. (With Honors)
- Masters Degree: Computer Science, 1982. University of Miami, USA.
- Ph.D. : Computer Engineering & Science, 1987. University of Miami, USA.

Theses Title: “Architectural Approaches to the Design of RISC Oriented LISP Machines

## **Important Post for the past 10 years**

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. Dean of the college of Computer & Information Sciences (1997-2004)
6. Editor-in-chief , KSU-Journal of Computer Sciences (2005-2008)
7. Saudi Computer Society Vice President (1994--1997)
8. Associate Editor-in-chief-Saudi Computer society Journal (1995-1997)

### **King Saud University - college of Computer & Information Sciences:**

- Professor of Computer Science (2009)
- Editor-in-chief , King Saud University -Journal of Computer Sciences (2005-2008)
- Team leader – PhD program development and implementation(2005-2008)
- Dean of the College (1997-2004)
- Vice Dean of the College (1991-1997)
- Associate Professor - Computer Science Department (1994--2009)
- Chairman of Computer Technology Department (1994--1997)
- Assistant Professor Computer Engineering Department (1989-1992)
- Supervisor of Practical Training Program (1989--1997)

### **Saudi Computer Society**

- Vice President (1994--1997)
- Associate Editor-in-chief - Saudi Computer society Journal (1995-1997)
- Member of Board of Directors (1992-1997)

### **Consulting Experience**

- Head of Consulting team to the Ministry of Transportation (2002-now)
- Member of Equalization Committee (Ministry of Higher Education) 1997-2007
- Consultant to Ministry Transportation (2004-2005)
- Consultant to Ministry of Higher Education (1998-1999)
- Consultation to Ministry of Health (1993).
- Consultation to Riyadh Bank (1993).
- Consultation to Ministry of defense (1992).
- Strategic planning committee- Prince Salman Center for Handicapped research - Information Center (1995).
- Promotion Examination Committee-National Computer Center- Ministry of Interior (1991,1992)

- Chairman of Organizing Committee: 2nd. Computer arabization Symposium , King Saud University , 27 March 1994.
- Member of Organizing Committee for 13th,14th National Computer Conferences, Saudi Computer society.
- Referee to many professional national & international Journals, Conferences, and symposiums..

### **Professional Memberships:**

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

### **Awards and Honors:**

#### ***King Saud University Golden Medal for Distinguished Service***

- Eastman Kodak award for Physics, University Of Miami, 1979.
- First in Graduating Class 1980 (Civil engineering), University Of Miami.
- Phi Capa Phi Honor Society, USA.
- Golden Key Honor Society, USA.
- Tau Beta Bi Honor Society, USA.
- Saudi Computer Society Decree of Honor - (1992).
- Marquis Who"s Who in the World 12th,13th ed. 1995,1996.
- Marquis Who ,,s who in Science & Engineering 1996.

### **Other Interests and Posts**

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

## **List of Publication**

1. H. A. Aboalsamh, B. Furht, "A Software Tool for Dynamic Measurement of LISP Interpreters" ., Proc. of the ISMM International Sympos. on Mini and Microcomputers and there Applications, Austin, Texas, USA, 10-12, 1986, pp 72-76.
2. Hatim A. Aboalsamh, B. Furht, "Multiple Register Windows File for LISP Oriented Architectures" ., Proc. of IEEE Miami Technicon87, Miami, Florida, USA 1987, pp 291-295.
3. B. Furht, Hatim Aboalsamh, W. Chia, Y. Lai, Organization, "Management, and VLSI Implementation of a Multiple Register Window File for LISP Oriented Architectures" Proc. of the 21st. Annual Hawaii Int. Conf. on System Science, Vol., Hawaii, USA, January 1988, pp 238-247.
4. B. Furht, Hatim Aboalsamh, W. Chia, Y. Lai, " Multiple Register Window File for Lisp- Oriented RISC Architectures" ., Journal of microprocessors and Microsystems, Vol. 12, No 24, May 1988, pp 187-195.
5. Hatim Aboalsamh, "Prolog Oriented Architecture Using RISC Concepts" The Int. Conf. on Databases, Parallel Architectures and there Applications, March 1990, Miami Beach, Florida USA, pp. 132-134.
6. Hatim Aboalsamh, "Analysis of Graphics Primitives for Efficient High Level Language Execution." , Proc of 23rd. Annual Pittsburgh Conf. April 30, 1992, Univ. of Pittsburgh, USA, pp. 1529-1534.
7. Hatim Aboalsamh and A. Mandar, "A Multimedia Approach for Teaching the Braille." , The 10th Int. Conf. on Technology and Education, March 21, 1993, MIT, Cambridge, MA. USA, pp.488-490.
8. Hatim Aboalsamh, and A. Mandar, "A Cost Effective Braille Keyboard for Microcomputers." , The 10th Int. Conf. on Technology and Education, March 21, 1993, MIT, Cambridge, MA. USA, pp. 491-493.
9. Hatim Aboalsamh, "Approaches to the Analysis of Graphics Elements for Efficient High Level Language Execution." , Computational System Analysis (Book) by Achim Sydow, Elsevier Science Publ. Co., Amsterdam, 1992, pp.351-356.
10. Hatim Aboalsamh, and A. Mandar, "An Adaptable Text Editor for the Limited Movement Impaired." , Proc. of the 2nd Computer Arabization Symp. 27 March, 1994, King Saud University, Riyadh, KSA, pp. 119-125.
11. Hatim Aboalsamh, "Computer Graphics in The Engineering Curriculum: A New Era" , Frontiers in Education Conf. Washington DC, USA, Nov 6, 1993.
12. Hatim Aboalsamh, "Analysis of Graphics Elements for Efficient High Level Language Execution: A Practical Approach" , Journal of System Analysis, Modeling and Simulation, Vol.12, 1993, pp. 81-87.
13. Hatim Aboalsamh, "Computer Graphics : A Curriculum Development Approach" , Journal of Mathematical Modeling and Scientific Computing Vol.4, 1994.
14. Hatim Aboalsamh, "Polygon Clipping Modeling for High Level Language Applications" , Journal of Mathematical Modeling and Scientific computing Vol.4, 1994.

15. J. C. Agrawal, Hatim Aboalsamh, "Developing A Mathematical Model for Applications to the Handicapped Communication Sciences", 10th Int. Conf. on Mathematical and Computer Modeling and Scientific Computing. 5-8 July, 1995.
16. Hatim Aboalsamh, "The Design of an Authoring System for the Limited Movement Handicapped: A Multimedia Approach." 10th Int. Conf. on Mathematical and Computer Modeling and Scientific Computing. 5-8 July, 1995.
17. Hatim Aboalsamh, "Virtual Reality System Requirements and Applications", Multimedia : Tools, Application and Trends Symposium, Dec.5-6, 1995, Dhahran, Saudi Arabia, pp. 154-158.
18. Hatim A. Aboalsamh, "A HANDICAPPED COMMUNICATION TOOL THROUGH MOVEMENTS MAPPING: A MULTIMEDIA APPROACH", The 5th World Multi-Conference on Systemics, Cybernetics and Informatics (ISAS/SCI) , Vol. 8, July 22-25, 2001 Orlando, Florida USA
19. Hatim A. Aboalsamh , Salah M. Rahal, " Education in the Digital Era", Schools of the Future Semposyim, School of Education, King Saud university, October 22-23,2002 ,Riyadh, Saudi Arabia, PP. 277-285.
20. Hatim A. Aboalsamh , Salah M. Rahal, " Digital Schools of the Future", Electronic Education Semposyim, April 22-23,2003 ,Riyadh, Saudi Arabia, CD Proceedings.
21. Hatim A. Aboalsamh, Ghazy Assassa, Heba Kurdi, , " The Development of an E-Learning Tool for Autistic Children", First National IT Symposium (NITS2006) , Bridging the Digital Divide: Challenges and Solutions, February 4-5, 2006. King saud university, Riyadh, Saudi arabia 6/7
22. Salah M. Rahal, Hatim A. Aboalssamh, Khalid N. Muteb, Multimodal Biometric Authentication System – MBAS, 2nd IEEE International Conf. On Communication & Technologies:From Theory to Applications, April 24-28,2006 Damascus, Syria.
23. [25]Hassan Mathkour, Hatim Aboalsamh, Ghazy M.R. Assassa, Hmood Al Dossari, "Use of Extreme Programming in Software Engineering Education: A Pilot Study", Engineering Research Journal, Faculty of Engineering, Minoufiya University, vol 31, no. 1, January 2008, pp. 39-47.
24. Hatim Aboalsamh,Hassan Mathkour, Mona Mursi, Ghazy Asassa, "Steganalysis of JPEG Images: An Improved Approach for Breaking the F5 Algorithm", accepted for pup. Wseas jurnal
25. Hatim A. Aboalsamh, A Novel Boolean Algebraic Framework for Association and Pattern Mining WSEAS TRANSACTIONS on COMPUTERS, Issue 8, Volume 7, August 2008, pp 1352- 1361
26. Hatim A. Aboalsamh, Alaaeldin M. Hafez,and Ghazy M. R. Assassa, An Efficient Stream Mining Technique,WSEAS TRANSACTIONS on INFORMATION SCIENCE & APPLICATIONS, Issue 7, Volume 5, July 2008, pp 1272- 1281
27. Hatim A. Aboalsamh, Abdulaziz Al-Muharib, Ibrahim Kiady, Hassan I. Mathkour, Ghazy M.R. Assassa, A Spiral-based LSB Approach for Hiding Messages in Images, The Saudi 19th National Computer Conference (NCC19), 1-5/11/2008 – Riyadh
28. Hatim Aboalsamh, Sami Dokheekh, Hassam Mathkour, Ghazy Asassa, " Breaking the F5 Algorithm: An Improved Approach , Egyptian Computer Science Journal, Egypt, Issue 1,Volume 29, January 2007, pp 1-9.
29. Hassan Mathkour, Hatim Aboalsamh, Ghazy M. R. Assassa, Hmood 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, January 2008, pp.39-47.

30. Hatim A. Aboalsamh, "A Novel Boolean Algebraic Framework for Association and Pattern Mining", WSEAS TRANSACTIONS on COMPUTERS, USA, Issue 8, Volume 7, August 2008, pp 1352-1361.
31. Hatim A. Aboalsamh, "Human Face Recognition Using Eigen and Fisher Faces", Egyptian Computer Science Journal, Egypt, Issue 1, Volume 31, January 2009, pp 66-76.
32. Hatim A. Aboalsamh, "Evolutionary Face Recognition Using Principle Component Analysis", Egyptian Computer Science Journal, Egypt, Issue 2, Volume 31, January 2009
33. Hatim A. Aboalsamh, "IASDM: A Novel Incremental Approach for Stream Data Mining", Alexandria Engineering Journal, University of Alexandria, Egypt, (acceptance 22/3/2009).
34. Hatim A. Aboalsamh, "An Efficient Quadtree-Based Join Algorithm for Large Databases", Proceedings of World Academy of Science, Engineering and Technology, International , Volume 38 February 2009, pp1113-1118.
35. Hatim A. Aboalsamh, " A Join Algorithm for Large Databases: A Quadrees Structure Approach", Computer and Information Sciences Journal, King Saudi University, Riyadh, Saudi Arabia,
36. Salah M. Rahal, Hatim A. Aboalsamh, Khalid N. Muteb, "Multimodal Biometric Authentication System- MBAS, 2nd IEEE International Conf. On Communication & Technologies: From Theory to Applications, Damascus, Syria, April 24-28, 2006, Volume 1, 24-28 pp: 1026-1030.
37. Ghazy Assassa, Hatim Aboalsamh, Amel Al Hussan, "Software Cost Estimation: A Tool for Object Oriented Console Application", Proceedings of the 1st National Information Technology Symposium, NITS, Riyadh, K.S.A., 2006, pp. 276-284.
38. Salah M. Rahal, Hatim A. Aboalsamah, Khaled N. Muteb, "FINGERPRINT RECOGNITION TIME & ATTENDANCE SYSTEM DEVELOPMENT", The International Conference on Intelligent Systems, (ICIS 2008), Bahrain, 1-3 December 2008.
39. Hatim Aboalsamh, Hassan Mathkour, Ghazy Assassa, Mona Mursi, "Face Recognition using Principle Components and Linear Discriminant Analysis", The 8th WSEAS International Conference on Recent Advances in Signal Processing, Robotics and Automation, Cambridge, UK, February 21-23, 2009, pp 276-282.
40. Lamees Alhazaa, Hatim Aboalsamh, Hassan Mathkour, Ghazy Assassa, Mohamed Batouche, " Nural Network and Genetic Algorithms in Face Recognition Systems", The 2nd National Information Symposium , King Saud University, Riyadh, K.S.A, March 9- 11, 2009 ,pp 73-79.
41. Hatim Aboalsamh, Hassan Mathkour, Ghazy Assassa, Abdullah Al Baihan, " Risk Management Tool for Extreme Programming", The 2nd National Information Symposium , King Saud University, Riyadh, K.S.A, March 9- 11, 2009, pp 87-95.
42. Hatim Aboalsamh, "A Potable Biometric Access device using Dedicated Fingerprint Processor", WSEAS TRANSACTIONS on COMPUTERS, Issue 8, Volume 9, August 2010, pp 878-887.
43. Hatim Aboalsamh, "Access Control Using Fingerprint Authentication Processor and RFID", Proceedings of the 9th WSEAS International Conference on TELECOMMUNICATIONS and INFORMATICS, Catania, Italy, May 29-31, 2010, pp 166-170.

44. Hatim Aboalsamh, "Recent Advancements in Biometrics: Vein and Fingerprint Authentication", LATEST TRENDS on COMPUTERS (Volume II), 14th WSEAS International Conference on COMPUTERS, Corfu Island, Greece, July 23-25, 2010, pp. 459 – 462.
45. Hatim Aboalsamh, "Vein and Fingerprint Identification Multi Biometric System: A Novel Approach ", International conference of the IEEEAM- APPLIED COMPUTER SCIENCE ( ACS ), Malta , September 18-20,2010, Accepted for publication (July 13<sup>th</sup>, 2010).
46. Hatim Aboalsamh, "An integrated finger print Authentication and RFID access control system", TECH CONFERENCES IN SMART SECURITY, e-MOBILITY AND e-ID (SMARTEVENT'10), September 21-24, 2010 - Sophia Antipolis, French Riviera, Accepted for publication (May 12<sup>th</sup>, 2010).
47. Hatim Aboalsamh, "Academic Program Accreditation Approach to E-learning Benchmarking", IEEE International Conference on Distance Learning and Education ICDLE 2010, October 3-5, 2010, San Juan, Puerto Rico, USA, Accepted for publication (August 12<sup>th</sup>, 2010).
48. Ahmed I. Albarrak, Hatim A. Aboalsamh, Mohamed Abouzahra ,” Evaluating Learning Management Systems for University Medical Education”, IEEE International Conference on Education and Management Technology (ICEMT 2010), November 2-4, 2010, Cairo, Egypt, Accepted for publication (September 5<sup>th</sup>, 2010).