**Alaaeldin M. Hafez, Professor**

**IEEE Senior**

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**Education:**

* Ph.D. in Computer Science, Case Western Reserve University, Cleveland, Ohio, USA, 1989.
* M.Sc. in Computer Science, Faculty of Engineering, Alexandria University, Egypt, 1983.
* B.Sc. in Computer Science, Faculty of Engineering, Alexandria University, Egypt, 1977.

**Current Activities:**

* Department of Information Systems, College of Computer and Information Sciences, King Saud University, Riyadh, Saudi Arabia, 2004-current, Professor (full time).
* Department of Computer and Systems Engineering, Faculty of Engineering, Alexandria University, Egypt, Professor, 2002- current.
* Associate Editor, Journal of King Saud University - Computer and Information Sciences
* Member of the Assessor Board of King Saud University Quality Management System KSU-QMS.
* ABET (Accreditation Board for Engineering and Technology)
* Consultant for several academic programs at the national level.
* Head of CCIS steering committee of Quality Management System KSU-QMS
* Member of CCIS steering committee of accreditation
* Head of IS Quality and Accreditation Committee
* Supervisor and Co-Supervisor of more than 40 Ph.D. and M.Sc. students
* Teaches several Ph.D. and M.Sc. graduate courses

**Academic Experience:**

* Department of Mathematics, Faculty of Engineering, Alexandria University, Teaching Assistant, 1977-1979, (full time).
* Department of Computer Sciences, Faculty of Engineering, Alexandria University, Teaching Assistant, 1979-1984, (full time).
* Department of Computer Science and Engineering, Case Western Reserve University, Ohio, USA, Research Assistant, 1985-1989, (full time).
* Department of Computer Sciences, Faculty of Engineering, Alexandria University, Assistant Professor, 1989-1995, (full time).
* Adjunct Professor at Institute of Public Health-Alexandria-Egypt, Air Defense Academy-Egypt, Arab Maritime Transport Academy-Egypt, and SADAT academy for management-Egypt
* College of Management Sciences and Planning, King Faisal University, Saudi Arabia, Assistant Professor, Acting Chairman of Computer Science Department, 1993-1998, (full time).
* Center for Advanced Computer Studies (CACS), University of Louisiana at Lafayette, USA, Research Scientist, 1998-2001, (full time).
* Department of Computer Sciences, Faculty of Engineering, Alexandria University, Associative Professor, 1996-2002, (full time).
* Department of Computer Sciences, Faculty of Engineering, Alexandria University, Professor, 2002-Current

**Non-Academic Experience:**

* ARABSQFT, Alexandria, Egypt, System Analyst, 1977-1979, part time.
* STANDARDATA, Alexandria, Egypt, System Analyst, 1979-1984, part time.
* STANDARDATA, Alexandria, Egypt, Software Consultant, 1989-1993, part time.
* Arabic Software Engineering, Egypt, Training consultant, 1989-1993, part time.
* The Egyptian Post Authority, Egypt, Data Warehouse Consultant, 2003-2004, part time.

**Consultations:**

* Computer Applications consultant at the Ministry of Transportation
* Reviewer of the Bachelor of Computer and Information Systems Curriculum – College of Computer and Information Sciences -Yamamah University
* Reviewer of the Bachelor of Science in Information Technology Curriculum – College of Computer and Information Sciences - Majmaah University

**Current Membership in Professional Organizations:**

* Member of Editorial Board of Saudi Computer Society Journal
* Member of Egyptian Engineering Association

**Honors and Awards:**

* Best Paper Award, IEA/AIE 2000.

**Patents**

“Code-Based Hashing for Message Authentication Codes”, Docket No.: KSU.0133PTUS (PATENT), Application No.: 12/790,730, Confirmation No.: 1189

**Briefly List the Most Important Publications:**

* [Nourah F. Bin Hathlian](http://dblp.uni-trier.de/pers/hd/h/Hathlian:Nourah_F=_Bin), Alaaeldin M. Hafez, “Subjective Text Mining for Arabic Social Media”, [Int. J. Semantic Web Inf. Syst. 13(2)](http://dblp.uni-trier.de/db/journals/ijswis/ijswis13.html#HathlianH17): 1-13 (2017)
* Nora Almezeini and Alaaeldin Hafez, “An Enhanced Workflow Scheduling Algorithm in Cloud Computing”, CLOSER 2016, 6th International Conference in Cloud Computing and Services Science”, 23-25 April, 2016, Rome, Italy.
* Luluah Al-Husain and Alaaeldin Hafez, “A Novel Approach for Dimensionality Reduction of Genotypic Data”, 2015 IEEE Conference on Computational Intelligence in Bioinformatics and Computational Biology**,** August 12-15, Niagara Falls, Canada.
* Hussein Hashimi, Alaaeldin Hafez, Hassan Mathkour, “Selection criteria for text mining approaches”, Computers in Human Behaviorm, Volume 51, Part B, October 2015, Pages 729–733.
* Nouf M. Kh. Alsudairy, Alaaeldin M. Hafez, Vijay V. Raghavan, and Hassan I. Mathkour, “Candidate Graph Generation Algorithm”, 9th International Conference on Computer Engineering and Applications (CEA '15), February 22-24, 2015
* Jennifer Lavergne, Ryan Benton, Vijay Raghavan, and Alaaeldin Hafez, "DynTARM: An In-Memory Data Structure for Targeted Strong and Rare Association Rule Mining Over Time-Varying Domains", 2013 IEEE/WIC/ACM International Conference on Web Intelligence, Atlanta, USA, November 18-20, 2013
* Amal Alsubaih, Alaaeldin Hafez and Khaled Alghathbar, “Authorization as a Service in Cloud Environments.”, the 2nd International Symposium on Privacy and Security in Cloud and   
  Social Networks (PriSecCSN 2013), in conjunction with IEEE Int. Conference on Cloud and Green Computing 2013 (CGC 2013), Sept. 30th- Oct. 2nd, 2013.
* **Amal Alsubaih and Alaaeldin Hafez “**Privacy Preserving Model in Semi-Trusted Cloud Environment”, International Conference on Cloud Computing and eGovernance 2013 (ICCCEG 2013), Dubai, United Arab Emirates, 17 - 19, July 2013.
* Hussein Alhashimi, Alaaeldin Hafez, and Hassan Mathkour, “Selection Criteria for Text Mining Approaches”, 6th World Summit on the Knowledge Society, Aveiro, Portugal June 19-21, 2013.
* Amal Alsubaih and Alaaeldin Hafez,“Privaciy Preserving Model in Semi Trusted Cloud Environment”, The International Conference on Cloud Computing and eGovernance, ICCCEG 2013, June 2013.
* Abdelmonim M. Artoli, Hassan I. Mathkour, and Alaaeldin M. Hafez, “A Proposed Quality Assurance Intelligent Model for Higher Education Institutions in Saudi Arabia”, 9th International Congress of quality management in education and training systems, December 2012.
* Abdelmonim M. Artoli, Hassan I. Mathkour, and Alaaeldin M. Hafez: A Proposed Quality Assurance Intelligent Model for Higher Education Institutions in Saudi Arabia. The Journal of Quality in Education, No. 3, 2012,
* Yasser Reyad, Ali El-Zaart, and Alaaeldin M. Hafez, “Mammograms Segmentation Using Log-Normal Distribution“, 27th International Conference on Computers and Their Applications 2012 (CATA-2012)
* Hussein Hashimi, Alaaedin M. Hafez, and Mutaz Beraka, “A Novel View of Risk Management in Software Development Life Cycle”, I-SPAN 2012, San Marcos, Texas, USA, December 2012.
* Bakheet Aldosari, Ghada Almodaifer, Alaaeldin Hafez and Hassan Mathkour, “**Constrained Association Rules for Medical Data”,** Journal of Applied Sciences, 2012.
* Abdulkader A. Alfantookh, Hussam M. Ramadan, Alaa Eldin M. Hafez, Mourad, A. Ykhlef, Ahmad J. AlShibli, and Mourad A. Benchikh, “A Decision-Support System for the Saudi Ministry of Higher Education”, International Journal of Computers and Their Applications (IJCA), Vol. 19, No. 4, Dec 2012.
* Abdullah M. Al-Faifi, Mohammed Rahhal, and Alaaeldin M. Hafez, “TAXONOMY AND SURVEY OF DATA MINING IN CLOUD COMPUTING”, Science Series Data Report Vol 4, No. 8;Aug 2012
* Ghada Almodaifer, Alaadin Hafez and Hassan Mathkour, “Discovering Medical Association Rules from Medical Datasets”, IEEE International Symposium on IT in Medicine & Education ITME2011 , Guangzhou, China, December 9-11, 2011.
* Nouf M. Kh. Alsudairy, Vijay Raghavan, Alaaeldin M. Hafez and Hassan I. Mathkour, “Connection Subgraps: A Survey”, Journal of Applied Sciences, 2011.
* H. Mahmoud, K. Alghathbar and A. Hafez, “**A Novel Stegnosystem Design for Defying Differential Power Analysis Attacks on Smart Cards”,** Journal of Applied Sciences, Issue 6, Volume 11, 2011.
* R. Alosaimy,  K. Alghathbar,  A. Hafez,  M. Eldefrawy "NMACA Approach Used to Build a Secure Message Authentication Code", International Conference on Security Technology (SecTech 2010), December 13 ~ 15, 2010. Jeju Island, Korea
* H. Mahmoud, F. Bin Muhaya, and A. Hafez, "Lip Reading Based Surveillance System" . IEEE. AIMS, May 21-23, 2010, Korea
* K. Alghathbar and A. Hafez “The Use of NMACA Approach in Building a Secure Message Authentication Code”, INTERNATIONAL JOURNAL OF EDUCATION AND INFORMATION TECHNOLOGIES, Issue 3, Volume 3, 2009
* K. Alghathbar, A. Hafez, F. Muhaya, and H. Abdullah “NMACA: A Novel Methodology for Message Authentication Code Algorithms”, 8th WSEAS Int. Conf. on Telecommunications and Informatics (TELE-INFO '09), Istanbul, Turkey, May 30 - June 1, 2009.
* H. Aboalsamh, A. Hafez, and G. Assassa, “An Efficient Stream Mining Technique,” WSEAS Ttransactions on Information Sciences & Applications, Issue 7, Volume 5, July 2008, pp 1272-1281.
* M. Yakout, A. Hafez, and H. Aly “Mining Frequent Itemsets Using Re-Usable Data Structure,” The 2007 International Conference on Data Mining (DMIN'07: June 25-28, 2007)
* S. Guirguis, K. Ahmed, N. El-makky, and A. Hafez “Mining The Future: Predicting Itemsets' Support of Association Rules,” In Proc. of The 2006 IEEE International Conference on Data Mining (ICDM Workshops 2006), Hong Kong, Dec 2006.

**The Most Recent Professional Development Activities:**

* KSU – QMS Assessor Advanced Training
* Improving Student Learning and Motivation, King Saud University
* Teaching with Active Learning, King Saud University.
* Assessing Student Learning, King Saud University
* Quality Improvement in Teaching and Research, Alexandria University..