

Ahmad S. Al-Mogren

Profile

- Name: Ahmad S. Al-Mogren
- Degree: PhD. in Computer Sciences
- Areas of specialty include mobile, cloud and pervasive computing, wireless sensor network, Computer Security, and data mining
- Email: ahalmogren@ksu.edu.sa
- Birth Place: Riyadh, Saudi Arabia

Education

- **B.S.** in Computer Science, King Saud University, Riyadh, Saudi Arabia, May 1992.
- **M.S.** in Computer Science, Southern Methodist University, Dallas, Texas, USA, December 1995.
- **M.S.** in Software Engineering, Southern Methodist University, Dallas, Texas, USA, December 1999.
- **Ph.D.** in Computer Science, Southern Methodist University, Dallas, Texas, USA, August 2002. Dissertation Title: "*Developing an Architectural Model and Maintaining Transactional Consistency for Universal Mobile Broadcast Environment*"

Working Experience

- 1990: Project Head at KACST (King Abdulaziz City for Science and Technology).
- 1992-1993: T.A. at College of Technology, Riyadh.
- 2001-2002: Research Associate at Prof. M. Dunham Research Group, SMU.
- 2002-2010: Assistant Prof. C.Sc. at College of Technology, Riyadh.
- 2003-2004: President of the initiative technical program by his Majesty King Abdullah bin Abdulaziz in Riyadh.
- 2008-2010: Dean, College of Computer and Information Sciences, AlYamamah University, Riyadh.
- 2008-2010: Chairman, Council of Academic Accreditation, AlYamamah University, Riyadh.
- 2009-2010: Acting Dean, College of Community Studies and Services, AlYamamah University, Riyadh.
- 2010-2014: Assistant Prof. C.Sc., College of Computer and Information Sciences at King Saud University.
- 2013-2014: Vice Chairman Computer Science Dept, College of Computer and Information Sciences at King Saud University.
- 2014-present: Vice Dean of Quality and Development, College of Computer Science at King Saud University.
- 2014-present: Associate Prof. C.Sc., College of Computer Science at King Saud University.

Recognitions and Awards

- Willis Tate Award for Outstanding Graduate Student, 1994-1995.
- Saudi Cultural mission award for outstanding student, 1996.

- Prince Bander Bin Sultan award for distinguished achievements and \$5,000.00, 1996.
- NSF award for presenting a conference paper in Munich, Germany, 2001.
- Graduate office at SMU award 2001.
- National Science Foundation (NSF), USA, award for excellency in research, 2001-2002.
- SMU award for mobile computing research, 2002.
- Royal Embassy of Saudi Arabia award for a mobile computing work, 2002.
- Raising over \$500,000.00 through my extensive and distinguished Ph.D. research in mobile data broadcast which has been sponsored by NSF, 2002.

Tasks

- Conducted research in the areas of data mining, database recovery, mobile computing, and telecom. mgmt.
- Implemented simulation testbeds using C++, SQL, LISP.
- Programmed in C for a banking system through a team according to the specification prepared by other project engineers.
- Worked with a team of engineers in designing a new model of a self-driven mini-van.
- Handled and debugged design problems reported from online workers and customers.

Computer Skills

- Languages: C/C++, Java, Perl, LISP.
- Network internet: JavaScript, CGI, TCP/IP, Sun RPC, BSD Socket , ATM, OSI/ISO, VPN, IPX/SPX, NetBEUI, AppleTalk, LAN/WAN configurations and setup.
- Databases: Microsoft Access, SQL, Oracle, Sybase, and SAP.
- Systems : UNIX, Linux (Redhat and Mandrake).
- KDD : Statistical Pattern Recognition, Machine Learning, AI, Logic Programming.
- Assembly : Motorola 680x0, Intel 80x86, VAX 11.
- Wireless Communication: Wi-Fi 802.11a,b,g,n,x, Wi-Max, RFID, IrDA, and ZigBee.

Professional Activities

- Member of ACM SIGMOD Conference in 1999.
- Reviewer for IEEE Journal on Knowledge and Data Engineering (2001-2003).
- Reviewer for STCEX (2005-present).
- Reviewer for AIRCC (2009-present).
- Referring several books for Scientific Council, King Saud University.
- Chairing several Workshops, Conference Sessions and Journals.
- Scholars and T.A.s head, CCIS, King Saud university, 2013-2014.
- NCAAA head, CCIS, King Saud university, 2013-present.
- ABET head, CCIS, King Saud university, 2013-present.
- Manpower convener, CCIS, King Saud university, 2013-present.
- Graduate students member, CCIS, King Saud university, 2013-present.
- Symposium Organizing Chair, The 5th National Symposium on Information Technology: Towards New Smart World, Feb 17-19, 2015.

Professional Training Received

- One week training of "Leadership Establishment", Arabian Institute of Arab Countries, Alexandria, Egypt, April 2004.
- One week training of "Making Ideas Work", Arabian Institute of Arab Countries, Alexandria, Egypt, April 2004.
- One week training of "Developing your Personal Communication Skills with Management and Staff", Prince Salman Center, TVTC, Riyadh Sep. 2004.
- One Week training of "Effective Planning of your time", Prince Salman Center, TVTC, Riyadh Sep. 2004.
- One week training of "Computer Networking using Microsoft Tools", Microsoft center, Riyadh, April 2007.
- Four weeks training of "MCSA and MCSE", Microsoft center, KL, Malaysia, July 2007.
- Attending a Workshop for Vice Rectors of Saudi University, hosted by NCAAA, 2009.
- Presenting a special keynote at NCAAA workshop in Riyadh, 2010.

Recent Publications

- Ahmad S. Al-Mogren and Margaret H. Dunham, "BUC, a Simple yet Efficient Concurrency Control technique for Mobile Data Broadcast Environment", *Fourth International Workshop on Mobility in Databases and Distributed Systems - MDDS*, 2001.
- M.H. Dunham, A. Al-Mogren, A. Seydim, and V. Kumar: "Data in Your Space", *WECWIS, Third International Workshop on Advanced issues of E-Commerce and Web-Based Information Systems*, MILPITAS, California, June 21-22, 2001.
- Ahmad S. Al-Mogren and Margaret H. Dunham, "Concurrency Control Performance in DAYS", *MobiDE*, San Diego September 2003.
- Ahmad S. Al-Mogren and Margaret H. Dunham, "Data Broadcast Classification", *The 3rd ACS/IEEE International Conference on Computer Systems and Applications AICCSA*, Egypt, Jan. 2005.
- Ahmad S. Al-Mogren, "Optimizing Wireless Data Retrieval in the Broadcast Environment", *The 3rd International Conference on Information & Communication Technologies: from Theory to Applications - ICTTA'08*, Damascus, Syria, April 2008.
- Ahmad S. Al-Mogren, "Energy Adaptive Approach In a Multi-Channel Dissemination-Based Network", *the second International Conference on New Technologies, Mobility and Security*, IEEE NTMS'2008, Morocco, November 2008.
- Ahmad S. Al-Mogren, "A Flexible Dissemination-Based Architecture to Fit The Telecommunication Network", *the second International Conference on Electrical Engineering Design and Technologies*, IEEE ICEEDT08, HAMMAMET, Tunisia, 2008.
- Ahmad S. Al-Mogren, "A Power Efficient Technique for a Multi-Channel Dissemination Network", *Third IEEE International Conference on Digital Information Management*, ICDIM 2008, London, UK, 2008.
- Ahmad S. Al-Mogren, "The Integration of Telecommunication and Dissemination Networks", *International Journal of Communication Networks and Distributed Systems (IJCNDS)*, July, 2009.
- Ahmad S. Al-Mogren, Asma Al-Huqail, Kholud Al-Mugren, "The Process of Applying Nanotechnology in Saudi Arabia and its Economic Impact", *The International Conference For Nanotechnology Industries, The Leading Technology of 21st Century*, KAIN-KSU, Riyadh, 2009.
- Ahmad S. Al-Mogren, "A Powerful Optimization Approach for the Multi Channel Dissemination Networks", *International Journal of Communication Networks and Communications (IJCNC)*, 2010.
- Mohammad Mehedi Hassan, Biao Song, Ahmad Almogren, M. Shamim Hossain, Atif Alamri, Mohammed Alnuem, Muhammad Mostafa Monowar and M. Anwar Hossain, "Efficient Virtual Machine Resource Management for Media Cloud Computing", *KSII TRANSACTIONS ON INTERNET AND INFORMATION SYSTEMS*, Vol. 8, May 2014.
- Biao Song, Mohammad Mehedi Hassan, Atif Alamri, Abdulhameed Alelaiwi, Yuan Tian, Mukaddim Pathan & Ahmad Almogren, "A two-stage approach for task and resource management in multimedia cloud environment", *Springer: Computing Journal*, Vol. 96, June 2014.
- Abdullellah A. Alsaheel and Ahmad S. Almogren, "A Powerful IPsec Multi-Tunnels Architecture", *Journal of Advances in Computer Networks (JACN)*, Vol 2, Dec. 2014.
- M. Anwar Hossain, Atif Alamri, Ahmad S. Almogren, SK Alamgir Hossain and Jorge Parra, "A Framework for a Context-Aware Elderly Entertainment Support System", *Sensors Journal*, Vol. 14, June 2014.
- Imen Jemili, Dhouha Ghrab, Amine Dhraief, Abdelfettah Belghith, Ahmed Al-Mogren and Hassan Mathkour, "CHRA: a coloring based hierarchical routing algorithm", *Journal of Ambient Intelligence and Humanized Computing*, Springer, ISSN: 1868-5137, online 08 November 2014.
- Mohammad Mehedi Hassan, S. M. Kamruzzaman, Atif Alamri, Ahmad Almogren, Abdulhameed Al-Elaiwi, Md. Manowarul Islam and Md. Abdur Razzaque, "Design of an energy-efficient and reliable data delivery mechanism for mobile ad hoc networks: a cross-layer approach", *Wiley Library; CONCURRENCY AND COMPUTATION: PRACTICE AND EXPERIENCE*, Vol. 26, July 2014.

- Omar Alkathiry and Ahmad Al-Mogren, "A Powerful Genetic Algorithm to Crack a Transposition Cipher", *International Journal of Future Computer and Communication (IJFCC)*, Vol. 3, Dec. 2014.
- Asma Enayet, Md. Abdur Razzaque, Mohammad Mehedi Hassan, Ahmad Almogren and Atif Alamri, "Moving Target Tracking through Distributed Clustering in Directional Sensor Networks", *Sensors Journal*, Vol. 14, Dec. 2014.
- Ahmad Al-Mogren, Mohsin Iftikhar, Muhammad Imran, Neal Naixue Xiong, Sghaier Guizani, "Performance analysis of hybrid polling schemes with multiple classes of self-similar and long-range dependent traffic input", 2015.
- Ahmad Yahya Floos and Ahmad Almogren, "Smart BodyNet for Hypercube Body Sensor Network", The 5th IEEE National Symposium on Information Technology: Towards New Smart World, Riyadh, Saudi Arabia, Feb 2015.
- Shakir Khan, Ahmad Almogren and Mohamed AlAjmi, "Using Cloud Computing to improve Network Operations and Management", The 5th IEEE National Symposium on Information Technology: Towards New Smart World, Riyadh, Saudi Arabia, Feb 2015.
- Ahmad Yahya Floos and Ahmad Almogren, "Efficient Body Monitoring Sensors", The World Congress on Information Technology and Computer Applications 2015 (WCITCA'2015), Hamm., Tunis, Jun 2015.
- Kaibin Huang, Raylin Tso, Yu-Chi Chen, Sk Md Mizanur Rahman, Ahmad Almogren and Atif Alamri, "PKE-AET: Public Key Encryption with Authorized Equality Test", The Computer Journal, Section D: Security in Computer Systems and Networks, April 2015.
- Mohammad Mehedi Hassan, Mohammad Abdullah-Al-Wadud, Ahmad Almogren, SK Md. Mizanur Rahman, Abdulhameed Alelaiwi, Atif Alamri and Md. Abdul Hamid, "QoS and trust-aware coalition formation game in data-intensive cloud federations", Wiley: Concurrency and Computation: Practice and Experience, Vol. 27, May 2015.
- Tariq Lasloum and Ahmad S. Almogren, "Improving Data Access for Smart World", The 6th EAI International Conference on Cloud Computing, CloudComp15, Daejeon, South Korea, October 28–29, 2015.
- Ahmad S. Almogren, "Developing a Powerful and Resilient SmartBody Sensor Network through Hypercube Interconnection", *International Journal of Distributed Sensor Networks*, Dec. 2015.
- Ahmad S. Almogren, "Ubiquitous Computing Systems Taxonomy", *International Journal of Critical Computer-Based Systems (IJCCBS)* (in review).
- Ahmad S. Almogren, "Energy Adaptive approach for Cognitive Wireless Sensor Network", *IEEE Pervasive Computing Transactions*, (in review).