

Date September, 2017

ABDALLAH ALASHQUR

PERSONAL INFORMATION

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PROFILE SUMMARY

- **Ph.D. and Masters Degrees from the University of Florida in 1989 and 1985 respectively.**
- Extensive **information technology (IT)** experience at various capacities and roles that uniquely combines academic theory, industrial practice, and management.
- Experience, after obtaining the Ph.D. degree, **includes 17 years in industry (in the USA) and 11 years in academia (in Jordan).**
- **Research interests:** Data Science, Text and Data Mining, Database Systems.

EDUCATION

Ph.D. degree. University of Florida, USA, 1989. Major: Electrical Engineering. Area of concentration: **Computer & Information Engineering. Some of the courses taken during the Ph.D. and Masters programs were:** Data Structures, Software Engineering, Distributed Processing, Computer Architecture, Database Systems, Database Design and Implementation, Expert Systems, Operating Systems, Image Processing, and Abstract Machines (Automata Theory).

Ph.D. Dissertation title: A Query Model and Query and Knowledge Definition Languages for Object-Oriented Databases.

M.E. (Master of Engineering) degree. University of Florida, USA, 1985. Major: Electrical Engineering. Area of concentration: **Computer & Information Engineering.**

Master Thesis title: An Interactive Data Dictionary System for Computer-Integrated Manufacturing Databases.

B.Sc. degree in Electrical Engineering. Area of concentration: Communications. **Ain Shams University, Cairo, Egypt, 1978.**

ACADEMIC EXPERIENCE

Middle East University

Faculty of Information Technology, Amman, Jordan (9/2017 – present)
Professor and Dean of the Faculty

Applied Science University (ASU)

Faculty of Information Technology, Amman, Jordan (9/2006 – 9/2017)

Academic Rank

Professor 8/2017 -
Associate Professor 8/2011 – 8/2017
Assistant professor 9/2006 – 8/2011

Departments

Software Engineering 9/2016 - 9/2017
Computer Information Systems 9/2006 - 9/2016

Management Responsibilities

- **Dean** of the Faculty of Information Technology at ASU (12/2009 - 7/2011).
- **Head**, Computer Information Systems (CIS) Department (9/2007 - 12/2009).

Committee membership/heading

While at Applied Science University, headed or participated in the following committees:

- Hiring and Promotion Committee
- Curriculum Committee
- Graduation Project Committee
- Course Scheduling Committee
- Scientific Committee
- Student investigation Committee

Courses Taught:

- ♦ *Master's Level Courses*
 - Data Mining
 - Advanced Database Concepts
 - Supervision of Master's Theses
- ♦ *Bachelor's Level Courses*
 - Data Mining and Data Warehousing
 - Information Retrieval
 - Database Systems
 - Logic Design (Digital Systems)
 - Database Administration
 - Artificial Intelligence
 - Distributed Information Systems
 - Information Systems Analysis and Design
 - Introduction to Information Systems
 - Computer Skills 2
 - Supervision of graduation projects

Master thesis supervision.

Student Name	Thesis Title
Mohammed Bassil Al-Bayati	Title: "Fake Profile Detection in Facebook Using Data Mining Techniques." Currently in proposal writing stage.
Adra AL-Mashah	Title: "Sentiment Analysis and Opinion Mining in Social Media". Currently in proposal writing stage.
Hisham Ogbah	Master thesis titled: "A New Approach for Detecting and Handling Concept Drift in Big Data in Order to Perform Accurate Classification." Applied Science University. Completed in May, 2017.
Nada Sail	Master thesis titled: "Association Rules Algorithm Based on LIFT as an Interestingness Measure." Applied Science University, Completed in April 2015.
Osamah Abu-Eid	Co-supervisor (along with Dr. Eyas El-Qawasmeh). Master thesis titled: "Enhancement of Keywords Extraction from Databases." Jordan University of Science and Technology, May 2009.

University of Florida, Gainesville, U.S.A. (1983 - 1989)

Held teaching and research assistant positions while a graduate student at the University of Florida. Worked on several research projects including: query languages and query processing for object-oriented and relational databases, constraint specification and enforcement in database and knowledge-based systems, and semantic and object-oriented data analysis and design. Taught database systems and artificial intelligence classes.

INDUSTRIAL EXPERIENCE

JP Morgan Chase (Investor Services), Dallas, Texas, U.S.A. (6/2000 – 9/2006)

- **Asst. Vice President (2/2006 – 9/2006).**
Work involved capacity planning, setting guidelines for developing high-performance database applications, standards, and research future directions and trends in database systems.
- **Senior Technology Officer (6/2000 – 2/2006).**
Lead the design and development of the database component of a large (around \$30 Million budget) web-reporting application. This involved extensive planning and coordination, database architecture design, DataMart design reviews, data modeling and data model reviews, contribution to the overall application architecture design, index design, Oracle SQL and PL/SQL scripting, Oracle performance tuning, Oracle parallel query processing, Oracle Real Application Clusters (RAC), and Oracle Materialized Views.

Fina Oil and Chemical Company, Dallas, Texas, U.S.A. (8/1997 – 6/2000)

Senior Applications Advisor. Lead the design and development of a Client-Server application called “Incident Tracking and Reporting System” (ITRS) through all phases of the development life-cycle, which included requirement analysis, data modeling, physical & logical database design in SQL Server and ERwin, application architecture design, development, testing, and deploying. The application was deployed to more than 400 users in different cities within the USA. It was used to track incidents and accidents within the company and to record injuries, costs, spills, causal analysis, lost time analysis, investigation results, eye-witness information, and reviewers’ evaluation, among other functions.

Senior Consultant – Dallas, Texas (7/1996 – 7/1997)

Provided SQL Server and Oracle-based database design and development consultation to several companies in the Dallas area for periods ranging from few weeks to several months.

Texas Instruments, Incorporated, Dallas, Texas, U.S.A. (12/1989 - 7/1996)

Research Scientist in the Information Technologies Lab, a division of Corporate Research and Development (R&D). During this period, worked on several R&D projects some of which were supported by DARPA (a government agency). Some of the important projects are listed below.

■ **Trauma Care Information Management System**

Lead the design and development of the Active Database System, a research prototype which was a component of a government-supported project called Trauma Care Information Management System (TCIMS). The Active Database system is a Client-Server prototype, with Oracle 7 as the underlying database, that monitors data pertaining to patients’ vital signs and *actively* sends wireless notifications to concerned staff (physicians, nurses and ambulance staff) based on patients’ conditions.

■ **Software Reverse Engineering and Formal Methods**

Participated in an R&D project to develop techniques to reverse engineer legacy software and data. Used the formal specification language Zed (a language based on mathematical logic) as a tool to formally capture requirements and design specs.

■ **O-R Gateway**

As part of an object-oriented database R&D project, designed and developed the O-R Gateway system, which is an interface between C++ application programs and relational databases. It translates the relational definitions of data to equivalent object-oriented definitions and enables application developers to query relational data through an OO interface. Developed a prototype using C++ and Oracle.

Department of Civil Aviation, Kuwait (1978 – 1982)

Communications Engineer.

PUBLICATIONS

(in descending chronological order)

Hisham Ogbah, Abdallah Alashqur (2016). "A New Approach for Detecting Concept Drift and Measuring its Intensity in Large Datasets," *International Journal of Computer Science and Network Security (IJCSNS)*, Vol. 16, No. 12, pages 108-115.

Abdallah Alashqur (2016). "Towards a Broader Adoption of Agile Software Development Methods," *International Journal of Advanced Computer Science and Applications (IJACSA)*, 7(12), pages 94-98.

Hisham Ogbah, Abdallah Alashqur, and Hazem Qattous (2016). "Predicting Heart Disease by Means of Associative Classification." *International Journal of Computer Science and Network Security (IJCSNS)* 16, no. 9 (2016), pages 24-32.

A. Alashqur. "Representation Schemes Used by Various Classification Techniques – A Comparative Assessment" **International Journal of Computer Science Issues (IJCSI)**, Volume 12, Issue 6, pages 55-63, November 2015. ISSN: 1694-0814.

A. Alashqur, "Mapping Data Between Probability Spaces in Probabilistic Databases." **International Journal of Database Management Systems (IJDMS)**, Vol. 7, No. 3, pages 1-12, June 2015. ISSN : 0975 – 5985.

N. Hussein, A. Alashqur, and B. Sawan, "Using the Interestingness Measure Lift to Generate Association Rules" **Journal of Advanced Computer Science & Technology**, Vol 4, No 1, pages 156-162, June 2015. ISSN: 2227-4332.

A. Alashqur, "A Novel Methodology for Constructing Rule-Based Naïve Bayesian Classifiers" **International Journal of Computer Science & Information Technology (IJSIT)**, Vol 7, No 1, Pages 139-151, February 2015. ISSN: 0975 – 4660.

D. AL-Dlaeen, A. Alashqur, "Using Decision Tree Classification to Assist in the Prediction of Alzheimer's Disease" Sixth International Conference on Computer Science and Information Technology (CSIT), Pages 122-126, March 26-27, 2014. Amman, Jordan. IEEE Xplore Digital Library, ISBN: 978-1-4799-3998-5.

A. Alashqur, "Probability Spaces in Databases with Uncertainty," **International Journal of Engineering Science and Technology**, Vol. 5, Issue 12, pages 1977-1982, December, 2013. ISBN: 0975-5462.

D. Gupta, R. Abu Khalaf, N. Abu Ajamieh, and A. Alashqur. "Building Multiplayer Games for Smartphones: Experience with Connect-4 Game," **Journal of Emerging Trends in Computing and Information Sciences**. Vol. 4. No. 10, Pages 778-784, October 2013. ISSN: 2079-8407.

A. Alashqur, Haneen Al Issa, Alia Sawalha, Ezdehar Sabbag, "SUGAR-M: A System for User-Guided Association Rule Mining" **American Journal of Scientific Research (AJSR)**, Issue 86, pages 100-110, March 2013. ISSN: 2301-2005.

A. Alashqur, M. Badwan, E. Rohi, and M. Abo-Tahun "Cellphone as a Traffic Guidance System" **International Journal of Computer Science Issues (IJCSI)**, Volume 9, Issue 4, pages 260-264, July 2012. ISSN: 1694-0814.

A. Alashqur. "Using a Lattice Intension Structure to Facilitate User-Guided Association Rule Mining." **Journal of Computer and Information Science**, Published by Canadian Center of Science and Education. Vol. 5, No.2, pages 11-21, March 2012. ISSN: 1913-8989.

A. Alashqur. "RDB-MINER: A SQL-Based Algorithm for Mining True Relational Databases" **Journal of Software**, Vol. 5, No. 9, Pages: 998-1005, Sept. 2010.

E. El-Qawasmeh, O. Abu-Eid, and A. Alashqur, "A Framework for Processing Keyword-Based Queries in Relational Databases" **Journal of Theoretical and Applied Information Technology**, January 2010, Vol. 11, No. 2. Pages 149-163.

A. Alashqur, "A New Approach for Computing Support and Confidence When Mining for Association Rules," **Second International Conference on Advanced Computer Theory and Engineering (ICACTE)**, pages 1741-1748, September 25-27, 2009, Cairo, Egypt.

A. Alashqur, "Expressing Database Functional Dependencies in Terms of Association Rules," **European Journal of Scientific Research (EJSR)**, pages 260-267, Vol32 Issue 2, June, 2009.

A. Alashqur, "Mining Association Rules: A Database Perspective" **International Journal of Computer Science and Network Security (IJCSNS)**, pages 69-74, VOL.8 No.12, December 2008.

O. Abu-Eid, E. El-Qawasmeh, and A. Alashqur, "Enhancement of Keywords Extraction from Relational Databases" **Proceedings of International Arab Conference on Information Technology ACIT 08**, Tunisia, December 16-18, 2008.

A. Alashqur, (2007) "The Impact of Partitioning on Performance of Database and Data Warehouse Systems", **Proceedings of the International Arab Conference on Information Technology (ACIT 07)**, Lattakia, Syria, pages 117-124, November 26-28, 2007.

A. Alashqur, "O-R Gateway: A System for Connecting Object-Oriented Application Programs and Relational Databases," U.S. **Patent** No. 5,504,885. April 2, 1996.

A. Alashqur and C. Thompson, "O-R Gateway: A System for Connecting C++ Application Programs and Relational Databases," **Proceedings of the fifth USENIX C++ Conference**, Portland, Oregon, August, 1993.

A. Alashqur, S. Su and H. Lam, "Constraint Specification in Object-oriented Databases," **Proceedings of the IEEE 4th International Conference on Computer Languages (ICCL)**, Oakland, California, April, 1992.

S. Su and A. Alashqur, "A Pattern-based Constraint Specification language for object-oriented Databases," **Proceedings of the IEEE Spring COMPCON Conference 91**, San Francisco, CA, Feb. 26-28, 1991, pages 1-10.

J. Blakeley, C. Thompson, and A. Alashqur, "Strawman Reference Model for Object Query Languages," **Proceedings of the X3/SPARC/DBSSG OODB Task Group Workshop on Standardization of Object-Oriented Database Systems**, Atlantic City, N.J., May, 1990. A revised version also appeared in the **Computer Standards and Interfaces Journal**, pages 185-199, 1991.

J.A.Blakeley, C.W Thompson, and A.M. Alashqur, "OQL(X): Extending a Programming Language X with query capability", Technical Repot TR-90-03-01, Texas Instruments, March 1990.

J.A.Blakeley, C.W Thompson, and A.M. Alashqur, “Zeitgeist Query Language (ZQL)”, Technical Repot TR-90-07-01, Texas Instruments, July 1990.

A. Alashqur, S. Su, and H. Lam, “A Rule-based Language for Deductive Object-oriented Databases,” **Proceedings of the IEEE 6th International Conference on Data Engineering**, Los Angeles, California, February, 1990.

H. Lam, S. Su, and A. Alashqur, “Integrating the Concepts and Techniques of Semantic Data Modeling and the Object-oriented Paradigm,” **Proceedings of the 13th International Computer Software and Applications Conference (COMSAC)**, Orlando, Florida, September, 1989.

A. Alashqur, “**A Query Model and Query and Knowledge Definition Languages for Object-Oriented Databases**” Ph.D. Dissertation, University of Florida, 1989, USA.

A. Alashqur, S. Su, and H. Lam, “OQL: A Query Language for Manipulating Object-oriented Databases,” **Proceedings of the 15th International Conference on Very Large Databases (VLDB)**, Amsterdam, The Netherlands, August, 1989.

S. Su and A. Alashqur, “Uniform Treatment of CAD/CAM Integrated Data and Metadata,” **Proceedings of the First International Symposium on Computerization and Networking of Materials Properties Databases**, November, 1987, Philadelphia, PA. A revised version also appeared as a **book chapter** in a book entitled Computerization and Networking of Materials Data Bases, J. Glazman and J. Rumble (Eds.), ASTM, 1989, Pages 109-125.

A. Alashqur, “**An Interactive Data Dictionary System for Computer Integrated Manufacturing Databases.**” Master’s Thesis, University of Florida, 1985, USA.
