**LUAI M. MALHIS Department of Computer Engineering An-Najah National University**

**Nablus, Palestine**

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**INTERESTS**

Design, development and performance evaluation of software and hardware systems in the areas of computer networks, computer architecture, operating systems, and parallel and distributed fault-tolerant computing.

**EDUCATION**

**UNIVERSITY OF ARIZONA** Tucson, AZ

Doctor of Philosophy, Electrical and Computer Engineering, January 1996, GPA 3.71/4.0, Research emphasis in steady-state analysis of Markov chains, performance modeling and evaluation of communication and database systems using analytic and simulation techniques.

**UNIVERSITY OF ARIZONA** Tucson, AZ

Master of Science, Electrical Engineering, May 1990, GPA 3.88/4.0, Research emphasis in software development for digital signal and image processing applications.

**UNIVERSITY OF ARIZONA** Tucson, AZ

Bachelor of Science; Computer Engineering, December 1987, GPA 3.65/4.0

**PROFESSIONAL EXPERIENCE**

**6/96 to present An-najah National university,**

1/2003-8/2012 *Chairman of the computer engineering department at an-najah national university*.

Responsible for making schedule of classes offered at the computer engineering department. Working on improving computing laboratories, helping resolve student-teacher issues, and being directly involved in matters concerning the college of engineering .

1/2002-12/2006 *Director of the information technology unit at an-najah national university*.

This unit is responsible for conducting advanced training in several information technology related fields. Managing ICDL Program.

10/2000- Joined the computer engineering department An-najah national university.

10/97-9/2000 *Chairman of the Computer Science Department*

In addition to teaching courses in hardware and software development, I accepted an administrative position as the head of computer science department. Responsibilities entail but not limited to conducting departmental meetings assigning teaching loads, improving computing laboratories, helping resolve student-teacher issues, and being directly involved in matters concerning the college of science .

7/96-9/97 *Assistant Professor*

Teaching introductory and advanced courses in the computer science field, courses include:

software design and development, computer networks, computer architecture, and databases.

1/95 - 1/96 **UNIVERSITY OF ILLINOIS** Urbana, IL

*Research Associate*

Developed an iterative method for the solution of large Markov chains arising from the analysis of deterministic and stochastic Petri net models. Method requires only 10 percent of memory storage and achieves twice the speedup when compared with other iterative methods.

1/94-12/94 **IBM CORPORATION** Tucson, AZ

*Performance Evaluation Specialist*

Developed and evaluated parallel algorithms for tape recycling process in a database system under development. Built stochastic models to evaluate the performance of the proposed algorithms. Designed a program that automatically generated workload for the models . Modeled various design alternatives and provided the designers feedback on the relative performance of the different designs.

1/93-12/93 **UNIVERSITY OF ARIZONA** Tucson, AZ

*Research Assistant*

Constructed stochastic models for the performance evaluation of the Psync group communication protocol. Psync supports reliable exchange of messages among a collection of processes. Evaluated protocol performance for different work environments and suggested improvements.

1/91-12/92 **UNIVERSITY OF ARIZONA** Tucson, AZ

*Research Assistant*

Dependability modeling of parallel distributed systems. Measured the reliability and availability of different system configurations. Developed simulation models for the performance evaluation of Object Access of an IBM’s object storage and management system.

1/89 -5/90 **UNIVERSITY OF ARIZONA** Tucson, AZ

*Research Assistant*

Designed image processing algorithms for detection and classification of defects in VLSI

circuits.

**PROJECTS**

 Co-directed a QIF project to develop Learning management tool that is SCORM compliant.

The project was for 1 years and fund was for more that $100,000.

 Developed many eLearning courses.

 Served on An-Najah university eLearning committee for many years.

 Co-initiated many bachelor programs at An-najah university.

 Evaluated many degree programs for AQAC Palestine.

 Directed joint project between An-Najah and Amra information technology to conduct training in advanced IT fields, years 2002-2003. This project was funded by ANERA and the fund was for $40,000.

 A project to activate the information technology unit at An-najah N. University funded by

ANERA and the fund was for $10,000.

 Written several proposal for projects during my graduate studies and my tenure at An-Najah university, many of these proposal resulted in funds for projects.

**PUBLICATIONS**

 L. M. Malhis, W. H. Sanders, and R. D. Schlichting, "Numerical Performability Evaluation of a Group Multicast Protocol," *in Distributed Systems Engineering, Special Issue on Performance Modeling (ed. Peter G. Harrison), vol. 3, no.1, March 1996, pp. 39-52.*

 L. M. Malhis and W. H. Sanders, "An Efficient Two-Stage Iterative Method for the Steady- State Analysis of Markov Regenerative Stochastic Petri Net Models," *in Performance Evaluation, vols. 27 & 28, 1996, pp. 583-601.*

 L. M. Malhis, W. H. Sanders, and R. D. Schlichting “Numerical evaluation of a group- oriented multicast protocol using stochastic activity networks,” *Proceedings of the 6th International Workshop on Petri Nets and Performance Models, October 3-6, 1995, Durham, NC.*

 L. M. Malhis, S. C. West, L. A. Kant, and W. H. Sanders, “Modeling recycle : A case study in the industrial use of modeling.” *Proceeding of the IEEE International Computer and Dependability Symposium (IPDS’95), April 24-26, 1995, Erlangen Germany.*

 W .H .Sanders, and L. M. Malhis, “Dependability evaluation using composed SAN-based reward models,” *Journal of Parallel and Distributed Computing, Vol. 15, No.3, pp. 28-254,*

*1992.*

 L. M. Malhis, B. P. Shah, W.H. Sanders, and S. C. West, Modeling OAM using SANs.

*PMRL Technical Report 93-3, University of Arizona, Tucson, AZ.*

 L. M. Malhis, Defect detection in periodic VLSI circuits using image processing . *Master’s*

*Thesis, University of Arizona, Tucson, AZ.*

 *R. A. Alqadi and L. M. Malhis An Educational Processor: Accepted for publication at An-Najah Univ. J. Res. (N. Sc.) Vol.20 , 2006.*

1. *R. A. Alqadi and L. M. Malhis A Systematic Approach for Building Processors in a Computer Design Lab Course at Universities in Developing Countries. Information technology Journal, 6(4) 497-508, 2007*

**DISSERTATION TITTLE**

Development and Application of an Efficient Method for the Solution of Stochastic Activity

Networks with Deterministic Activities.

**AWARD AND HONORS**

Council member of the accreditation and quality assurance commission of Palestinian universities.

University of Arizona, International Student Scholarship, 1985-1990. University of Arizona, Dean’s List, college of Engineering 1985, 1987. Tau Beta Pi, Engineering Honor Society

**OTHER EXPERIENC**

 Designed and implemented a reliable a network file transfer system that uses UDP/IP as the communication protocol.

 Designed and built a network file transfer system using RPC mechanism.

 Designed and developed a distributed file system.

 Advanced courses in parallel and distributed architectures, distributed operating systems, software design, communication protocols, network architectures, and digital signal and image processing.

 Extensive experience in UNIX and C, and software design and development at the kernel and user levels, TCP/IP programming.