

## **Basel A. Mahafzah**

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### **EDUCATION**

- **Ph.D.**  
The University of Alabama in Huntsville, 1999.  
Major: Computer and Electrical Engineering.  
First Minor: Computer Science.  
Second Minor: Mathematical Sciences.
- **Master of Science**  
The University of Alabama in Huntsville, 1994.  
Major: Computer Science.  
Minor: Computer and Electrical Engineering.
- **Bachelor of Science in Engineering**  
The University of Alabama in Huntsville.  
Major: Computer Engineering.
- **Bachelor of Science**  
Mu'tah University, Jordan, 1991.  
Major: Computer Science.

### **RESEARCH INTERESTS**

- Performance Analysis and Evaluation of Parallel & Message Passing Programs, Distributed and Parallel Processing, Computer Architecture, Interconnection Networks, and Queuing Networks Models.

### **EXPERIENCE**

- Computer Programmer in Alsha'er Company in Amman, Jordan, 1991.
- Graduate Teaching Assistant, Computer Engineering Department, The University of Alabama in Huntsville, May 1996 – August 1998.
- Graduate Research Assistant, Computer Engineering Department, The University of Alabama in Huntsville, August 1998 till May 1999.
- Full Time Instructor, Computer Science Department, Jordan University of Science and Technology, September 1999 till September 2000.
- Assistant Dean (Assistant Professor), Faculty of Computer and Information Technology, Jordan University of Science and Technology, September 2000 till October 2002.

- Vice Dean (Assistant professor), Faculty of Computer and Information Technology, Jordan University of Science and Technology, October 2002 till September 2004.
- Assistant Professor, Computer Science Department, Jordan University of Science and Technology, Present.

## COURSEWORK

<b>Computer Science Courses</b>	<b>Computer Engineering Courses</b>
Computer Skills	Boolean Algebra and Logic Design
Programming in C	Advanced Logic Circuits
Programming in C++	Digital Computer Design
Information Technology	Microcomputers
Programming Languages	Architectures for Parallel Processing
Formal Languages and Automata Theory	Analytic Models of Interconnection Networks
Design and Analysis of Algorithms	Parallel Processing Design
Operating Systems	Parallel Computation
Computer Networks	<b>Electrical Engineering Courses</b>
Computer Architectures	Communication Theory
Database Systems	Random Signals and Noise
Artificial Intelligence	Electrical Circuits
<b>Mathematical Courses</b>	Electronics
Graph Theory	Solid State Fundamentals
Combinatorial Enumeration	Analytical Methods for Continuous Time Systems
Fourier Analysis	Analytical Methods for Multivariable and Discrete Time Systems
Complex Analysis	

## COMPUTER SKILLS

<b>Operating Systems</b>	<b>Software</b>	<b>Multimedia Software</b>
MS-DOS	Adobe Acrobat Reader	Adobe PhotoDeluxe
Windows 95, 98, 00, NT, & XP	Comnet III (Simulation Networks)	DVD Play
Red Hat Linux and Unix (Solaris)	Cyber Patrol HQ	Image Expert
Mac O.S.	Electronics Workbench (Simulation Circuits)	Mediamatics Software MPEG
<b>Programming Languages</b>	Emacs (Text Editor)	<b>Internet Browsers Software</b>

Assembly 680X0	GSview	Internet Explorer
C/C++	Jove (Text Editor)	Netscape Communicator
Cobol	Message Passing Interface (MPI)	
Fortran 77	Microsoft Excel	
Pascal	Microsoft Outlook Express	
Perl	Microsoft Power Point	
Prolog	Microsoft Word	
	Pine, Pico, & VI	
	Network II.5 Simulator	

## PUBLICATIONS

- [1] W. E. Cohen and **B. A. Mahafzah**, “Statistical Analysis of Message Passing Programs to Guide Computer Design,” *Proceedings of the Thirty-First Annual Hawaii International Conference on System Sciences*, IEEE Computer Society, pp. 544-553, USA, January 1998.
- [2] **B. A. Mahafzah**, “Applying Message Passing Program’s Measured Characteristics to Queuing Models”, Ph.D. Thesis, The University of Alabama in Huntsville, Huntsville, Alabama, USA, May 1999.
- [3] **B. A. Mahafzah** and W. E. Cohen, “Verification of the Burst Queuing System Model for Parallel Programs”, *The 1999 International Conference on Parallel and Distributed Processing Techniques and Applications*, Monte Carlo, Las Vegas, Nevada, USA, June 1999.
- [4] **B. A. Mahafzah**. “Statistical Measurements of Message Sizes on Parallel Computational Fluid Dynamics Programs.” *The 2001 International Arab Conference on Information Technology (ACIT’ 2001)*, pp. 182-187, Irbid, Jordan, November 2001.
- [5] **B. A. Mahafzah** and Eyas El-Qawasmeh, “Verification of Communication’s Behavior in Parallel Numerical Benchmarks” *Proceedings of the Applied Telecommunication Symposium 2002 (ATS 02)*, pp. 77 – 82, The Society for Modeling & Simulation International (SCS), San Diego, California, April 14-18 2002.
- [6] Rehab Duwairi, **Basel Mahafzah**, and Abdel-Elah Al-Ayyoub, “A framework for Performance Assessment of Parallel Bi-Directional Heuristic Search” *The International Conference on Artificial Intelligence AI (IC-AI’02)*, Vol. III, pp. 1053-1059, Las Vegas, USA , June 24-27, 2002.