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Education

Ph.D. (Computer Engineering), From 2006 to now, Isfahan University, Iran

Thesis Title: Computing Solutions in Electrical Impedance Tomography (EIT) Via Sinc-Convolution

Advisor: Dr. A.R. Naghsh-Nilchi (nilchi@eng.ui.ac.ir)

M.Sc. (Computer Engineering), 2004-2006, Sharif University of Technology, Iran

Thesis Title: Design and Implementation of a Displacement Sensor (for Humanoid Robot) Based on Indirect Force Measurement

Advisor: Dr.S.Bagheri-Shouraki (sbagheri@sharid.edu)

B.Sc. (Computer Engineering), 1998-2002, Sharif University of Technology, Iran

Thesis Title: FPGA-Based Implementation of Mc.Culloch-Pitts Neural Network for Simulating Sequential Logic Circuits

Advisor: Dr.S.Bagheri-Shouraki ( sbagheri@sharif.edu)

Honors& Awards

2006: Ph.D. Scholarship in Bu-Ali-Sina University, Hamadan, Iran

2004: 6th place in Iran "National Entrance Examination for Higher Education" among

all computer engineering graduates

1998: 50th place in Iran "National Entrance Examination of Universities" and 6th in

Regional division among around 400,000 (four hundred thousand) attendees in Physics and Mathematics Major

1993-1997: 1th rank among High School Students in our City.

1993: Finalist in the First Scientific Olympiad in Hamadan Province

Teaching Experiences

2008-2009 Semester 2

Microprocessor1, Bu-Ali-Sina University, Hamadan, Iran

Communication Networks, Hamadan University of Technology, Hamadan, Iran

Digital Logic Circuits, Hamadan University of Technology, Hamadan, Iran

Microprocessor1, Islamic Azad University of Hamadan

Computer Architecture, Islamic Azad University of Hamadan

Communication Networks, Islamic Azad University of Hamadan

2008-2009 Semester1

Digital Logic Circuits, Bu-Ali-Sina University, Hamadan, Iran

Microprocessor1, Bu-Ali-Sina University, Hamadan, Iran

Microprocessor1, Islamic Azad University of Hamadan

Computer Architecture, Islamic Azad University of Hamadan

Communication Networks, Islamic Azad University of Hamadan

2007-2008 Semester 2

Digital Logic Circuits, Bu-Ali-Sina University, Hamadan, Iran

Internet Engineering, Bu-Ali-Sina University, Hamadan, Iran

Microprocessor1, Islamic Azad University of Hamadan

Computer Architecture, Islamic Azad University of Hamadan

Communication Networks, Islamic Azad University of Hamadan

2007-2008 Semester1

Digital Logic Circuits, Bu-Ali-Sina University, Hamadan, Iran

Microprocessor1, Islamic Azad University of Hamadan

Computer Architecture, Islamic Azad University of Hamadan

Communication Networks, Islamic Azad University of Hamadan

2007-2006 Semester 2

Digital Logic Circuits, Bu-Ali-Sina University, Hamadan, Iran

Digital Logic Circuits Hamadan University of Technology, Hamadan, Iran

Microprocessor1, Islamic Azad University of Hamadan

Computer Architecture, Islamic Azad University of Hamadan

Communication Networks, Islamic Azad University of Hamadan

2005-2006 Semester1

Communication Networks, Bu-Ali-Sina University, Hamadan, Iran

Digital Logic Design, Islamic Azad University of Hamadan

Computer Architecture, Islamic Azad University of Hamadan

Communication Networks, Islamic Azad University of Hamadan

Professional Experience

* (2004-2006) Technical Manager, Police Force Telecommunication Center, Hamadan, Iran
  + - Technical Management of a group of two Hardware & Software Engineers
    - Plan & Implementation of Wireless Links
    - Plan & Implementation of Mail Servers
    - Plan & Implementation of VIOP systems
* (2002-2004) Technical Manager, Police Force Computer Center, Hamadan, Iran
  + - Technical Management of a group of four Hardware & Software Engineers
    - Implementation of a GIS system for Police Force
    - Implementation of an Virtual Educational System
    - Repairmen of Computer Hardwar's
* (1999-2002) Software Analyzer, Designer and Engineer, Gam-Electronics Co.
  + - Analysis , Design and Implementation of Software Packages
    - Research about Keyboard layout
* (1998-1999) Software Analyzer, Designer and Engineer
  + - Analysis , Design and Implementation of a Software Packages for accounting
* (1998-2006) Occasional/Part Time Work
  + - Installation, Administration and Maintenance of Computer Networks Based on Windows Server
    - Teaching Computer Courses in High Schools in Hamadan.

**C**omputer **E**xperience

* Programming Skills: C/C++, Pascal, BASIC, 80x86 Assembly Language, Visual Basic.
* Expert Shells: Jess, Clips
* AI: Prolog
* Ontology: Protégé
* FPGA & Digital System Design
  + Schematic Design Entry: OrCAD, MaxPlus II
  + Simulators: Logic Works, ModelSim , MaxPlus II
  + VLSI Layout of Digital Circuits : Tanner's LEdit , Hspice
* Analog Devices
  + Pspice
* Mathematical Software : MATLAB
* Network Programming : Using Libraries in C++
* Microcontrollers & Microprocessors : 80x86 , z80, PIC ,8051

**C**urrent **R**esearch **I**nterests

* Advanced Numerical Methods in Image processing( BEM, FEM)
* Direct Image Reconstruction Methods in Electrical Impedance Tomography Based on Sinc-Convolution Approximation of Integral Equations

**P**ervious **R**esearch **I**nterests

* Image Processing Methods
* Sinc-Galerkin & Sinc-Convolution Methods for Solving ODE's& PDE's
* Microprocessors and Wireless Networks
* FPGA
* Neural Networks
* Expert Systems

**P**ublications

Conference **P**apers

* M. Abbasi,, “An Efficient Threshold for Wavelet Based Image Denoising”, CSICC2006,Tehran, Iran ,2006 ( In Persian)
* M.Abbasi, S.A.Monadjemi, “An Adaptive Hough Transform for Circle Detection”, NEEC2008 , Isfahan, Iran ,2008 ( In Persian)
* M.Abbasi, A.R.Naghsh-Nilchi, “Fast Circle Detection Using Gradient and Signature Information”, MVIP2008 ,Tabriz, Iran, 2008 ( In Persian)
* M.Abbasi, A.R.Naghsh-Nilchi, “Numerical Solution of Inhomogeneous Laplace Equation With Mixed Boundary Condition on a Disk Using Sinc-Convolution Method”, Aimc40 Tehran, Iran, 2009 ( In Persian)
* M.Abbasi, A.R.Naghsh-Nilchi, “A Computing Solution for D-bar Equation in the Plane

Via Sinc-Convolution , ” ICBME2009,Tehran,Iran, 2009.

**L**anguage **P**roficiency

1. English
   1. TOLIMO : 545
   2. MCHE : 54
2. Turkish : Mother Tongue
3. Farsi : Fluent
4. Arabic: Intermediate

**R**eferences

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*Department of Computer Engineering*

*Isfahan University*

*Isfahan, Iran*

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*Tehran, Iran*

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*Bu-Ali-Sina University*

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