

PERSONAL DETAILS	First Name: Pejman Surname: Taslimi Nationality: Iranian Date of Birth: October 1983 Marital status: Single Personal Email address: pejman at sign taslimi dot ws Work Email address: taslimi@aut.ac.ir SMS Number: +98-936-137-7981 Answering Machine: +98-21-8824-1121	
EDUCATION	MSc 02.2008 - Present <ul style="list-style-type: none"> • Electrical Engineering, Communication Systems • Department of Electrical Engineering, AmirKabir University of Technology • Thesis title/topic: Difference of Arrival Estimation • Supervisor: Prof. Alireza Moghaddamjoo BSc 09.2002 - 06.2006 <ul style="list-style-type: none"> • Electrical Engineering, Communication Systems • Faculty of Engineering , Shahed University of Tehran • Thesis title/topic: Acoustic Path Identification • Supervisor: Dr Hamed Shakouri G. 	
PROFESSIONAL QUALIFICATIONS	Business Skills 06.2007 - 07.2007 (72 hrs) <ul style="list-style-type: none"> • Labour & Social Security Institute (kaar va tamin e ejtemaaee) • Units: Entrepreneurship, Business plan, Finance management 	
TEACHING EXPERIENCE	Workshop <i>HFSS for PhD students</i> 02.2005 (3 hrs) <ul style="list-style-type: none"> • Islamic Azad University - Science and Research Branch • Supervised by Dr M.N. Moghaddasi Crash course <i>Microwave numerical analysis for PhD students</i> 01.2005 (4 x 2 hrs sessions) <ul style="list-style-type: none"> • Islamic Azad University - Science and Research Branch • Supervised by Dr M.N. Moghaddasi Lecture <i>Boot process in PC</i> 2004 (30 mins) <ul style="list-style-type: none"> • National Youth Organisation • Hardware boot process and windows start up sequence 	
WORK EXPERIENCE	Embedded Systems Consultant 04.2008 - 07.2008 (4 months) <ul style="list-style-type: none"> • Techanis Co. • Windows Embedded; VB, Perl and Linux C programming Embedded system designer 10.2006 - 03.2008 (18 months) <ul style="list-style-type: none"> • Kiatech Co., University of Tehran, Science and Technology Park, Technology Incubator • Embedded Linux; Shell script and Perl programming Signal Processing Researcher 10.2005 - 03.2006 (6 months) <ul style="list-style-type: none"> • AICTC Research centre, Sharif University of technology • Stochastic Analysis, Digital Filter Design, nonlinear Signal Processing, Matlab programming 	

UNPAID APPRENTICESHIP	Digital designer	11.2004 - 06.2005 (8 months)
	<ul style="list-style-type: none"> • Vabel Pardaz, Research and Engineering Company • Simple Digital Architecture Design, Micro-Controller Assembly Programming 	
	Active Noise Control Researcher	11.2003 - 06.2004 (8 months)
	<ul style="list-style-type: none"> • Baregheh, Research and Engineering Company • Signal Processing Algorithms, Matlab programming 	
	Digital designer	11.2002 - 09.2003 (11 months)
	<ul style="list-style-type: none"> • Vabel Pardaz, Research and Engineering Company • Simple Digital Architecture Design, Micro-Controller Assembly Programming 	
SUMMER JOBS	Researcher	07.2005 - 09.2005 (3 months)
	<ul style="list-style-type: none"> • AICTC Research centre, Sharif University of technology • Study and tracking new technologies in digital design methodologies 	
	Automation System Designer	07.2004 - 09.2004 (3 months)
	<ul style="list-style-type: none"> • Jalaalie, Water Purification Plant • Automation and remote sensing system • digital design, circuit (Ultra-Sonic level-meter) design, 8051 assembly programming 	
	Micro-controller Programmer	06.2002 - 09.2002 (4 months)
	<ul style="list-style-type: none"> • Vabel Pardaz, Research and Engineering Company • 8051 C programming 	
COMMERCIAL PROJECTS	Embedded Linux	07.2007 - 03.2008 (9 months)
	<ul style="list-style-type: none"> • Embedded Linux as first sample of Linux OS for Iranian Police • NAJI and ICT section of Police, FAVA NAJA 	
	Home automation	11.2004 - 06.2005 (7 months)
	<ul style="list-style-type: none"> • A remotely controlled system by phone, can open door and turn on/off electrical appliances • Send alarm to mobile phone (calling and playing a message) on smoke or motion sensors activation 	
ACADEMIC RESEARCHES	Depth of Anaesthesia Quantification	10.2005 - 06.2007 (9 months)
	<ul style="list-style-type: none"> • Biomedical Signal Processing • Supervised by AICTC Research centre and Supported by IDRO 	
	Industrial Protocol Implementation	09.2006 - 02.2007 (6 months)
	<ul style="list-style-type: none"> • A protocols of star switches and bus nodes based on TDMA • This project became a BSc Thesis 	
	Modulation Performance Analysis	09.2005 - 10.2005 (1 month)
	<ul style="list-style-type: none"> • Performance analysis of multi-rate transmission with adaptive modulation scheme • In Simulink®, with block construction using s-function • This project became a BSc Thesis 	
	Adaptive Filter Analysis	04.2005 - 06.2005 (2 month)
	<ul style="list-style-type: none"> • Performance analysis and comparison (simulation) of the self-orthogonalising adaptive lattice filter used to enhance slow convergence rate caused by eigenvalue spread • In Simulink®, with block construction using s-function • This project became an MSc Thesis 	

PROGRAMMING SKILLS	Language	Level	Last use
	AmigaBasic, QBASIC	advanced	before 2000
	C++ (Linux and MS)	intermediate	2008
	Controllers C (AVR)	expert	before 2006
	Controllers Assembly (8051, AVR)		
	TMS C54: Assembly, C	intermediate	2009
	x86 Assembly	intermediate	2004
	Visual Basic, VBScript	beginner	2008
	JavaScript	expert	2009
	PERL	advanced	2008
	Tcl	beginner	2009
	XS (PERL interface to C)	advanced	2007
	XML, HTML	expert	2009
	MATLAB M-file	expert	2009
	MEX (MATLAB interface to C)	beginner	before 2006
	Verilog HDL	advanced	before 2006
	VHDL	basic	2009
	Shell script	intermediate	2008

SOFTWARE EXPERIENCE	Software name	Level	Last use
	Office, GNUCash, Amaya, gnuplot, L ^A T _E X(TeX Live + Texmaker) and Some open-sources softwares	Advanced	monthly
	Orcad PSpice, Layout and Capture	Advanced	before 2006
	Protel DXP simulation and PCB design		
	IDE8051, AVR Studio, CodeVision AVR	Expert	before 2006
	TI Code Composer	Intermediate	2009
	MATLAB and Simulink	Expert	weekly
	Ansoft Designer and HFSS	Advanced	2005
	Computer Management (Partitioning, Firewalls, etc.)	Expert	occasionally
	Synopsys VCS, ns (network simulator), ...	Basic	occasionally
	Linux (Gentoo)	Advanced	monthly

TECHNICAL SKILLS **Algorithm Development** (Hardware, Software, Human world) *Level: Advanced*

Web-based software design - *Level: Advanced*

Embedded System Co-design (Single-board computer, Micro-Controller, Linux, C, Perl) - *Level: Intermediate*

PBC soldering! (inc. SOIC/SOP scale) *Level: Advanced*

PC Software and Hardware maintenance (computers administrator in one medical eng. conference) *Level: Advanced*

WRITINGS

Unpublished Works

- PC Security for beginners, 10.2004
[PDF]

Conference Publications

- Taslimi, P.; Rabiee, H.R.; Shakouri, G.H., "An empirical centre assignment in RBF network for quantification of anaesthesia using wavelet-domain features," Neural Engineering, 2009. NER '09. 4th International IEEE/EMBS Conference on , vol., no., pp.510-513, April 29 2009-May 2 2009
doi:10.1109/NER.2009.5109345 [PDF] [PPT] [JPEG1] [JPEG2] [JPEG3] [JPEG4]
- Gifani, P.; Rabiee, H.R.; Hashemi, M.R.; Taslimi, P.; Ghanbari, M., "Nonlinear

Analysis of Anesthesia Dynamics by Fractal Scaling Exponent,” Engineering in Medicine and Biology Society, 2006. EMBS '06. 28th Annual International Conference of the IEEE , vol., no., pp.6225-6228, Aug. 30 2006-Sept. 3 2006 doi:10.1109/IEMBS.2006.260501

- Gifani, P.; Rabiee, H.R.; Hashemi, M.H; Momenzadeh, S.; Taslimi, P.; Ghanbari, M., ”Power-Law Correlation in Human EEG at Various Anaesthesia Depths,” Advances in Medical, Signal and Information Processing, 2006. MEDSIP 2006. IET 3rd International Conference On , vol., no., pp.1-4, 17-19 July 2006 IEEE Xplore

Journal Papers

- P. Gifani; H.R. Rabiee; M.H Hashemi; S. Momen zadeh; P. Taslimi; M. Ghanbari, ”Optimal Fractal Scaling Analysis of Human EEG Dynamic For Depth of Anesthesia Quantification,” Journal of the Franklin Institute, Special Issue on Applications of Signal Processing, Elsevier Volume 335B, Number 8, 2007 doi:10.1016/j.jfranklin.2006.08.004
- P.Gifani; H.R Rabiee; M.R Hashemi1; P. Taslimi; S. Momen zade4; H. Shakouri; M.Ghanbari, ”New Method to Estimate Depth of Anesthesia by EEG Fluctuation Analysis,” Society for Technology in Anesthesia Annual meeting (STA2006), Selected Paper, Anesthesia & Amnesia Journal, San Diego, California, January 18-21, 2006
www.anestech.org

Course Projects (Selected on Requests)

- Design PLC Overview 06.2004
[PDF]
- Linear Machines Overview 06.2004
[PDF]
- Passive Radars Overview (Farsi) 06.2004
[PDF]
- Automation System, field-work 09.2004
[PDF]
- Auto Guided Vehicle Simulation using a Fuzzy-Logic-Controller with discontinuous surface 06.2005
[PDF]
- Patch Antenna Analysis (HFSS + Ansoft Designer) 08.2005
[PDF]
- An introduction to Gunn oscillator And electronics of TEDs 11.2005
[PDF]
- Analysis of talk-spurts and silence gaps in human conversation (Farsi) 07.2008
[PDF]
- Translation of article ”Security Aspects of the Authentication Used in Quantum Cryptography” (Farsi) 08.2008
[PDF] Original Document
- Time Delay Estimation 01.2009
DoA Estimation Methods [PPT] A reproduction of simulation [PDF]

EXTRA
INFORMATION

BSc Thesis Abstract

The project tries to simulate an acoustic path. It means, with the signal given corresponding to a point in space (channel input), the signal in somewhere else (channel output) must be estimated. Effects such as medium nonlinearities or multi-path change the signal through propagation. A mathematical model must be introduced with the ability of simulating the target input-output system (acoustic path).

A model for estimation of an acoustic path is selected (FIR model) and an adaptive algorithm is used (LMS with modifications) to identify the path (or select a system from the model-set). The model is then checked and some methods to improve identification is implemented. At end, some ways to further improvements are suggested.

Key concepts in this work was: overfit protection, Relative identification, Physics-guided identification.

Research Interests

- System Identification
- All aspects of signal processing
- Application of Identification and signal processing in control systems

Business Interests

- Industrial Automation, remote monitoring and control
- Embedded implementation of systems

Interests

- Applied Metaphysics (study the state of being and the nature of reality), Logical (pure) Analysis
- HiTech methodology in sports
- Computer Games

My strengths

- Worst Case Analysis
- Problem Solving in practical EE because of wide range of previous activities
- Critical Thinking in large-scaled issues (system-level)
- Originality and Creativity and hating copy/paste
- Accommodating Short-term Memory

My weaknesses

- Very Slow Decision Making leading to waste of opportunities
- Very Bad performance related to subjects in which there is no interest
- Dramatically Loosing Precision in time-consuming tasks
- Single (or at most double) Subject(s) of work in each period
- Questionable Long-term Memory

As a General Policy, I ...

- have got my own styles
- Committed to produce beneficial results instead of making useless shining medals
- Support Open-Door Policy, Open-Source Software (Free software is a matter of liberty, not price)

DOCUMENT
VERSION HISTORY

Updates

- Date of creation of this document: 28 September 2006 (based on "postgraduate online research training", School of Advanced Study, www.sas.ac.uk)
- Updated on 23 August 2007
- Updated on 2 September 2007
- Revised on 21 December 2007 (based on "HOW TO Prepare Your Curriculum Vitae", McGraw-Hill)
- Updated on 12 August 2008
- Updated on 25 January 2009
- Updated on 23 February 2009
- Converted to TeX format and Updated on 22 November 2009

Reviews

- Not yet!

The END