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Date of Birth: 8 - June - 1980

Amin Fazel

Objective

Acquiring a Ph.D. degree in Computer Engineering and working in a research group on the related topics. Having a position as a researcher in a good academic department like Microsoft Research Labs.

Fields of Interest

- Automatic Speech Recognition special in Robust Recognition

- Digital Signal (Image & Speech) Processing

- Biomedical Signal Processing

- Soft Computing

Education

- 2002 - 2005   Sharif University of Technology   Tehran-Iran

   M.Sc. in Artificial Intelligence
   · M.Sc. Thesis about Telephony Digits Recognition (Specially for Farsi Language)

   · Entered on Fall 2002

   · Graduated on 15 January 2005

   · GPA: 18.25 in a 0-20 scale (3.88 in a 0-4 scale)

   · Thesis: 20/20

- 1998 - 2002   Shiraz University   Shiraz-Iran

   B.Sc. in Computer Engineering
   · Major in Hardware Engineering

   · B.Sc. Thesis about Some New Techniques for Image Enhancement

   · Entered on Fall 1998

   · Graduate on Spring 2002

   · GPA: 16.58 in a 0-20 scale (3.61 in a 0-4 scale)

- 1994 - 1998   National Organization for Developing Exceptional Talents   Shahrekord – Iran

   Diploma with Math and Physics Discipline
   · Entered through a national exam among all the students nationwide (100,000).

   · GPA: 18 in a 0-20 scale

Advanced Courses Acquired	

- Adaptive and Neural Systems - Prof. Derakhshani - Spring 2006
- Bio Medical Imaging - Prof. Wang - Spring 2006
- Machine Vision - Prof. Jamzad - Spring 2003
- Fuzzy Systems - Prof. Bagheri - Spring 2003
- Speech Enhancement - Prof. Sameti - Spring 2003
- Bio Computing - Prof. Lucas - Fall 2003
- Neural Network - Prof. Bagheri - Fall 2002
- Digital Signal Processing - Prof. Manzuri - Fall 2002
- Image Processing - Prof. Jamzad - Fall 2002
- Speech Processing - Prof. Sameti - Fall 2002

Teaching experience	

- During M.Sc. Degree   Computer Engineering Dept   Sharif University of Technology

  Teacher's Assistance of official courses :
  - Speech Recognition
  - Engineering Probability and Statistics
  - Logic Circuits Lab

- During B.Sc. Degree   Computer Science and Engineering Dept   Shiraz University

  Teacher's Assistance of official courses :
  - Logic Circuits
  - Computer Architecture
  - Advanced Programming
  - Signals and Systems

Research experience	

- Jan 2006 - Now   EE and CS Dept   University of Missouri

  Researcher's Assistance:
  - Computational Intelligence and Bio-Identification Technologies (CIBIT) Lab.
  (http://www.sce.umkc.edu/cibit/)

- During M.Sc. Degree   Computer Engineering Dept   Sharif University of Technology

  Researcher's Assistance:
  - Speech Processing Lab. (http://spl.ce.sharif.edu)
  - Advanced Information & Communication Technology Center (AICTC)

Work experience

- Aug 2003 – Dec 2005   ASR Goyesh Co.   Tehran – Iran

  http://www.asrgooyesh.com

  Vice Chairman of the board of director
  Shareholder
  Research Engineer
  · Speech processing and recognition

  · Robust speech recognition

  · Product development

- June 2002 - July 2003   Zagros Black Chip Co.   Shahrekord – Iran

  Vice Chairman of the board of director
  Shareholder
  Engineer
  · Hardware

  · Network installation and maintenance

- June 2001 - Aug 2001   Heler Rayaneh Co.   Tehran – Iran

  http://www.heler-rayaneh.com

  Engineer Trainee
  · GIS

  · Advanced programming with Visual Basic

Professional Skills

- **Speech Recognition Tools**
  · HTK (Hidden Markov ToolKit), ATK
  · SPHINX

- **Programming Language**
  · C/C++
  · Visual Basic
  · Java
  · Assembly
  · Pascal
  · Delphi

- **Operating Systems**
  · DOS
  · Administration and professional use of Windows 9x/NT
  · Familiar with Unix, Linux

- **CAD Tools**
  · MATLAB

- **Tools**
  · Borland C++
  · Borland Delphi
  · MS Visual Studio
  · MS Office

- **Web Technology**
  · HTML
  · JScript
  · CGI
  · ASP
  · Perl

- **Dissertation**

  · M.Sc. Thesis, under supervision of Prof. Sameti and Prof. Manzuri, *"Telephony Continuous Digit Recognition"*

  · BS Thesis, under the supervision of Prof. Katebi, *"Special Techniques for Image Enhancement"*

- **Conference Paper**

12· Fazel Dehkordi A., Wang Y. P., *"Gaussian Mixture Model classification of Multi-Color Fluorescence. In Situ Hybridization (M-FISH) Images", Proceedings of ANNIE Conference, St. Louis, MO, 2006.*

11· Fazel Dehkordi A., Derakhshani R., *"A comparative study of Time Delay Neural Networks and Hidden Markov Models for Electroencephalographic Signal Classification",* Proceedings of ANNIE Conference, St. Louis, MO, 2006.

10· Ghiathi S. K., Fazel Dehkordi A., Bagheri S., Sameti H., *"A new segmentation and feature extraction method for speech recognition"*, - submitted -

9· Veisi H., Fazel Dehkordi A., Sameti H., *"Improving Digits Recognition Accuracy in noisy environment with Various Robust Features"*, 13th Iranian Conference on Electrical Engineering, Zanjan, Iran, 2005. (in Persian)

8· Fazel Dehkordi A., Sameti H., Bahrani M., *"Designing and Preparing of FARSI Connected Digit Database and Using it in a Word Based Automatic Speech Recognition System"*, 13th Iranian Conference on Electrical Engineering, Zanjan, Iran, 2005. (in Persian)

7· Fazel Dehkordi A., Lucas C., "*Solving of graph coloring problem with particle swarm optimization"*, 10th Annual Conference of Computer Society of Iran, Tehran, Iran, 2005. (in Persian)

6· Fazel Dehkordi A., Sameti H., Manzuri M. T., *"RCC-Mean Subtraction Robust Feature and Compare Various Feature based Methods for Robust Speech Recognition in presence of Telephone Noise"*, 10th Annual Conference of Computer Society of Iran, Tehran, Iran, 2005. (in Persian)

5· Fazel Dehkordi A., Sameti H., Ghiathi S. K, *"A new feature extraction method based on human ear physiology"*, First International Conference On Modeling, Simulation and Applied Optimization, (ICMSAO'05), Sharjah, UAE, 2005.

4· Hosseinzadeh K., Sameti H., Fazel Dehkordi A., *"MLLR method for environmental adaptation in the continuous FARSI speech recognition"*, The 6th Conference on Intelligent Systems, Kerman, Iran, 2004.

3· Fazel Dehkordi A., Ghiathi S. K., Lucas C., Hosseinzadeh K., *"Robust feature extraction based on human ear physiology for automatic speech recognition systems"*, The 6th Conference on Intelligent Systems, Kerman, Iran, 2004. (in Persian)

2· Sameti H., Movasagh H., Babaali B., Bahrani M., Hosseinzadeh K., Fazel Dehkordi A., Abutalebi H. R., Veisi H., Mokri Y., Montazeri N., Nezami Ranjbar M., *"Large Vocabulary Persian Speech Recognition System"*, The 1st workshop on Persian language and computer, Tehran, Iran, May 25-26, 2004. (in Persian)

1· Fazel Dehkordi A., "Telephony Continuous Digit Recognition", The 5th Seminar of Artificial Intelligence Post Graduate Projects, Sharif University of Technology, Tehran, Iran, 2003. (in Persian)

- **Technical Report**

  · FARSI Continuous Speech Recognition, Project Report No.4, Reported to Ministry of Industrial and Mines Department for High Tech Industrials, March 2005.(in Persian)

  · FARSI Continuous Speech Recognition, Project Report No.3, Reported to Ministry of Industrial and Mines Department for High Tech Industrials, October 2004.(in Persian)

  · FARSI Continuous Speech Recognition, Project Report No.2, Reported to Ministry of Industrial and Mines Department for High Tech Industrials, April 2004.(in Persian)

  · FARSI Continuous Speech Recognition, Project Report No.1, Reported to Ministry of Industrial and Mines Department for High Tech Industrials, November 2003.(in Persian)

- **Course Project Report**

  · Adaptive and Neural Systems

  · Bio Medical Imaging

  · Speech Processing. (in Persian)

  · Color Image Segmentation. (in Persian)

  · Speech Enhancement. (in Persian)

  · Digital Signal Processing. (in Persian)

  · Vision. (in Persian)

Honors

- 2nd ranked in the M.Sc. graduates of the Artificial Intelligence field, Sharif University of Technology, 2005.

- Iran Telecommunication Research Center (ITRC) Full Grant for M.Sc. Thesis Sharif University of Technology, 2004.

- 26th ranked in Iran National Graduate Studies Entrance Examination among about 5,000 applicants, 2002.

- 4th ranked in the B.Sc. graduates of the Computer Science and Eng. Dept., Shiraz University, 2002.

- Several nationwide awards in scientific and cultural contests, Iran, 1991-1998.

Membership of Societies

- 2006 – Now, Member of Eta Kappa Nu.

- 1999 - Now, Member of Computer Society of Iran (CSI).

References

- Prof. H. Sameti
  CE Dept., Sharif University of Technology
  Assistant Professor
  Email: sameti@sharif.edu

- Prof. M. T. Manzuri
  CE Dept., Sharif University of Technology
  Assistant Professor
  Email: manzuri@sharif.edu

- Prof. C. Lucas
  ECE Dept., Tehran University
  Professor
  Email: lucas@ipm.ir