

Soroosh Shahtalebi

Curriculum Vitae

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Coordinates

Concordia University
Faculty of Engineering and Computer Science,
Concordia Institute for Information Systems
Engineering, EV 8.225

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Affiliation
Montreal, Quebec



Research Interests

My current research interests are in the Biomedical Engineering with emphasis on:

- Signal Processing
- Machine Learning
- Brain computer Interfaces

Education

2016-present	Concordia University, Montreal, Quebec, Canada PhD in Information Systems Engineering Project: "Multimodal, Adaptive and Real-time Signal Processing for Hybrid Brain Computer Interfaces" Supervisor: Dr. Arash Mohammadi
2013-2015	K.N.Toosi University of technology, Tehran, Iran Masters of science in Biomedical Engineering Project: "Design and implementation of the processing and controlling circuit board of a cell counter" and "Design and production of complete EIT system" (Grade: A+) Supervisor: Dr. Reza Jafari Total GPA: 17.86/20 (1 st rank) Publication: " Design and Implementation of an Electronic Simulator for Aperture-Impedance Electronic Blood Cell Counters "
2009 -2013	Yazd University, Yazd, Iran B.Sc. in Electrical Engineering, major in Communications Project: "Design and Production of a Planar Goniometer in the Joint Angle Measurement" Supervisor: Dr. Jamshid Abouei Score: 20/20 Publication: " A New Method to Enhance Accuracy of Goniometry in Joint Angle Measurement "

Publications

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| 2015 | Shahtalebi S , Jafari R. "Design and Implementation of an Electronic Simulator for Aperture-Impedance Electronic Blood Cell Counters", The 3 rd International conference on applied research in electrical, Mechanical and Mechatronic engineering, Tehran, Iran. |
| 2015 | Shahtalebi S , Abouei J. "A New Method to Enhance Accuracy of Goniometry in Joint Angle Measurement", The 3 rd International conference on applied research in electrical, Mechanical and Mechatronic engineering, Tehran, Iran. |

Honors/Awards

- Tuition Award of Excellence for International Students (36000 \$), Concordia University, Canada, 2016
- Rank 6 (among top 1%) in Nationwide Entrance Exam for PhD, Iran, 2016
- 1st rank student in M.Sc. of Biomedical Engineering (2013 entry), KNT University of Technology, 2015
- Iran-Patent (NO:77226), "A new instrument for accurate shooting", Iran, 2012
- Iran-Patent (NO:76443), "A new planar goniometer in the Joint Angle Measurement", Iran, 2012
- Iran-Patent (NO:49444), "Automatic Threading Machine", Iran, 2009
- Distinguished paper in International Mathematics Competition, "Tournament of Towns", Moscow, Russia, 2008
- Distinguished Idea in Isfahan province, Kharazmi Festival, Iran, 2008
- 1st rank of IRANOPEN Robotic Competitions, Junior Demo league, Qazvin, Iran, 2008
- "Applied Idea" of IRANOPEN Robotic Competitions, Junior Demo league, Qazvin, Iran, 2008
- "Technical Design" of IRANOPEN Robotic Competitions, Junior Demo league, Qazvin, Iran, 2008
- 4th rank of IRANOPEN Robotic Competitions, Junior Rescue league, Qazvin, Iran, 2008
- Invitation Letter from International Robotics Competition, Atlanta, USA, 2007
- 1st rank of IRANOPEN Robotic Competitions, Junior Rescue league, Tehran, Iran, 2007

Academic/Research Experience

2016 (January-August)	Lab Director and Instructor	Biomedical Instruments Lab, Islamic Azad University, Najafabad Branch, Isfahan, Iran
2015 (4 months)	Research Assistant	Institute for research in fundamental sciences (IPM), School of Cognitive Sciences, Tehran, Iran
2015	Teaching Assistant	Course: Medical Imaging Systems, K.N.Toosi University of Technology, Tehran, Iran
2015	Teaching Assistant	Course: Statistical Approaches in Biomedical Signal Processing, K.N.Toosi University of Technology, Tehran, Iran
2013	Senior Researcher	Alam-al-hoda Research Center, Yazd University, Yazd, Iran
2008 to present (part time)	AutoCAD software Instructor	
2008 to present (part time)	Instructor of Robotics	
2014 to present (part time)	MATLAB software Instructor	

Industry Experience

2015 to 2017	CEO and Founder of "Hooshmand Afzar Pars" Corporation	The aim of this company was to design biomedical instruments. For the first step, we focused on designing and production of Biofeedback instrumentations and software.
2014-2015	Chief Operating Officer at Persia Mehr Alvand Company	In this position, I had to teach new employees how to do quality certification tests. We were performing biomedical instruments qualification tests in hospitals.
2012 (3 months)	Apprentice at Akhtar Bargh Company	As an apprentice, I was involved in diagnosis and repairing the telecommunication devices. I was also involved in field studies to determine the communication scheme for the Dispatching stations.
2009-2011	Head of Robotics and Innovation Department	In this position, I had to manage courses and strategies to teach robotics to a wide range of students aging from 8 to 18.

Computer Skills

- MATLAB (Coding and Simulink)
- Lab View
- C language
- Codevision AVR
- Assembly for AVR microcontrollers
- AutoCAD (2D and 3D)
- PsPice ORCAD
- Proteus

Language Skills

- Persian: Native
- English: Fluent (TOEFL iBT score: 93)

References

Dr. Arash Mohammadi

Vice-Chair, Montreal Chapter of the IEEE Signal Processing Society,
Assistant Professor,
Concordia Institute for Information System Engineering (CIISE),
Concordia University, Montreal, QC, H3G-2W1, CANADA.

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Dr. Reza Jafari

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