



Department of Information  
& Technology

Telephone : +39 388 866 6223

Email:

[seyedshahin.parvar@mail.polimi.it](mailto:seyedshahin.parvar@mail.polimi.it)

Politecnico di Milano, Milano,  
Italy

[shaahin\\_parvar@yahoo.com](mailto:shaahin_parvar@yahoo.com)

# Mr. Seyed Shahin Parvar

## RESEARCH INTERESTS

Smart Grids, Renewable energy, Innovation in Energy, Applications of Piezoelectrics and smart material, Start-up, **TRIZ**, Fuzzy Logic Systems/Controllers.

## EDUCATION

M.Sc, Electrical Engineering, Politecnico di Milano, Milan, Italy, 2017 – present.

B.Sc., Electrical Engineering(major Control), Shiraz University, Shiraz, Fars, Iran, 2011-2016.

Diploma in Mathematics and Physics, Tohid High School, Shiraz, Fars, Iran, (Sep 2010).

TOEFL IBT score: 90, GRE general score: 303, writing:3.

## HONOURS AND AWARDS

- 1<sup>st</sup> place in the 3<sup>rd</sup> National Robotic Competition (NODcup 3)
- 1<sup>st</sup> place in the 5<sup>th</sup> National Robotic Competition (NODcup 5)
- 2<sup>nd</sup> place in National Canoe polo Competition ( Fajr-cup)

## PROFESSIONAL SKILLS

- MATLAB and SIMULINK Programming (intermediate)
- Programming skills in LabVIEW (intermediate)
- Strong practical experience in Altium Designer (expert)
- PTC PRO-engineer (basics)
- Solidworks (intermediate)
- FESTO PLC's programming (intermediate)
- NI Multisim (intermediate)
- Code Vision AVR (intermediate)

## RECENT PROJECTS

- Laparoscopy Robot
- Design of a Remotely Operated Underwater Vehicle (ROV) and using different control techniques in order to have the fastest movement,
- Parallel Hexa robot and serial arms  
Modeling and driving the robot position using Kinect camera
- Measurement and estimation of the properties of transformer's oil:  
Finding and performing a new & optimized method in order to measure the properties of transformer's oils in Electrical super-distribution network
- Driving and Controlling Piezoelectric:  
The design of an inverter for driving high power Piezoelectrics and find improved ways to drive them by using control theory.

- Design and manufacturing high-voltage high-frequency power supply
- Design and manufacturing air sampler for the School of Mechanical Engineering Shiraz University
- Design and Simulate Hybrid Solar System
- Design and manufacturing the Mirco Injection Machine:  
This machine includes two parts, first made the microneedle. Second, do the injection with high accuracy about 20 microliters.

## PUBLICATIONS

S.Senemar, **S.S.Parvar**, M.Shariat, **Design and Simulation of Inductive Furnace**, 2<sup>nd</sup> International congress of Electrical Engineering, computer Science and information technology, july-2015.

M.Hejazifar, K.Yazdani, **S.S.Parvar**, **A Brief Survey on Reinforcement Learning**, 2<sup>nd</sup> International congress of Electrical Engineering, computer Science and information technology, july-2015.

A.Vadiee, **S.S.Parvar**, S.Senemar, M.Shariat, M.Yaghoubi, **Feasibility Study on Hybrid Thermal Photovoltaic-Thermoelectric Systems: Novel solution to Improve Photovoltaic Performance**, 2<sup>nd</sup> International congress of Electrical Engineering, computer Science and information technology, july-2015.

## STANDARDIZATION

Member of standardization teams means to develop and designate official standards for products or determining and formulating national standards, conducting applied research to uplift standards level, upgrading the quality of domestic products, assisting better production process as well as efficient industry and productivity, such as:

- **INSO 6998-3 1<sup>st</sup>.Edition, Mar.2014, Specifications for particular types of winding wires – part 3: polyester enameled round copper wire, class 155.**
- **INSO 14459-23, 1<sup>st</sup>.Edition, Apr.2014, Fire detection and alarm systems-part23: visual alarm devices.**
- **INSO 16864-23, 1<sup>st</sup>.Edition, 2015, Optics and photonics-Environmental test methods – part23: Low pressure combined with cold, ambient temperature and dry and damp heat.**
- **INSO 17639, 1<sup>st</sup>.Edition, 2014, Information technology –Radio frequency identification for item management – RFID Emblem.**
- **INSO 17640, 1<sup>st</sup>.Edition, 2014, Information technology – Embedded Biometrics – BioAPI.**
- **INSO 17747, 1<sup>st</sup>.Edition, 2014, Information technology – Automatic identification and data capture techniques – Air interface specification for Mobile RFID interrogators.**

## TEACHING EXPERIENCE

Lateral Thinking workshop, Seasonal school of creativity and innovation, National Elite Foundation 2015-present  
Six thinking hats workshop, Seasonal school of creativity and innovation, National Elite Foundation 2015-present  
Mathematical Olympiad, Dastgheib high school (Shiraz' school of talented for boys) 2011-2016

Mathematical Olympiad, Razi research center	2011-2013
Mathematical Olympiad, Tohid high school	2011-present
Mathematical Olympiad, Farzanegan high school(Shiraz' school of talented for girls)	2012-2014
Mathematics for International Biology Olympiad	2012-present
Robotics in Novin Robotic Society	2011-2013
Electronics and digital, Students' Research and Entrepreneurship Center of Shiraz University	2012-2013

#### PROFESSIONAL MEMBERSHIPS

- Institute of Electrical and Electronics Engineers (IEEE), 2013-present
- Shaikh Bahaie Society, Shiraz University, 2012-2015
- Top Ideas Support Center, Shiraz Universities, 2011-2015
- Novin Robotics Society, Shiraz, Iran, 2006-2010
- Discoverers of Talents, Boosters of Thoughts (DTBT) students group at Shiraz University of Medical Science (SUMS), 2012-present.

#### NATIONAL PATENTS

**Parvar,Seyed Shahin.** Senemar, Sourosh. Shariat, Mostafa. 2015. High voltage and frequency power supply. I.R. patent 86478

**Parvar,Seyed Shahin.** Senemar, Sourosh. Shariat, Mostafa. Vadiiee, Amir. 2015 Intelligent thermal electric photovoltaic cell. I.R. patent 87191.

#### TEACHING ASSISTANTSHIP

Linear Algebra, Dr. Hamed Masnadi, School of Electrical Engineering and Computer Engineering, Spring 2014-2015(two semesters).

Analysis and Design the Electrical Circuits 2, Dr. Mehdi Miri, School of Electrical Engineering and Computer Engineering, Spring and Fall 2014 (two semesters).

Introduction to Mechatronics, Dr.Mohamad Eghtesad, School of Mechanical Engineering of Shiraz University, Spring 2015.

#### OTHER ACTIVITIES

Canoe polo, Play Daf (Iranian musical instrument)  
Tennis, Volleyball.

Updated: 1-Sep-2017