Fatemeh Pahlevan Aghababa

PERSONAL INFORMATION

- Place of Birth: Tehran-Iran
- Mobile Number : +989125169683
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RESEARCH INTERESTS

- Cognitive Science
- Collabrative Learning is MAS
- Human Computer Intraction
- Machine Learning

EDUCATION

- o **Sharif University of Technology,** Tehran,Iran
  M.Sc. Artificial Intelligence   2015 – 2017
  (1nd rank among all Iranian Universities)

  - ❖ Cumulative Grade Average till now for $17.65/20$ ($\approx 3.50/4$)

- o **Amirkabir University of Technology (Tehran Polytechnic),**Tehran,Iran
  B.Sc. Computer Engineering   2011 – 2015
  (2nd rank among all Iranian Universities)

  - ❖ Total 140 units: $17.79/20$ ($\approx 3.60/4$)
  - ❖ Major related courses: $18.53/20$ ($\approx 3.70/4$)

    Data Structures & Algorithms ($\approx 4/4$), *Research Method & Report Writing* ($\approx 4/4$) , *Technical English*($\approx 3.9/4$), *Principle of Computer and Programming* ($\approx 3.8/4$), *Advanced Computer programming*($\approx 3.8/4$), *Software EngineeringI* ($\approx 3.9/4$), *Software EngineeringII* ($\approx 3.6/4$), *Differential Equation*($\approx 3.9/4$), *Engineering Statistics*($\approx 4/4$),*Artificial Intelligence* ($\approx 3.4/4$), *Design of Algorithms* ($\approx 3.6/4$), *Design of Programming Language*($\approx 3.7/4$), , *Theory of Machines and Languages*($\approx 3.6/4$),, *Logic Circuits*($\approx 3.5/4$), *Principles of Data Base Design*($\approx 3.65/4$), *Data Storage and Retrieval* ($\approx 3.6/4$)

- o **Allame Tabatabae High School** , Tehran, Iran
  Diploma in Physics and Mathematics Discipline   2007 – 2011

  Cumulative Grade Average
  - ❖ Total Average: $19.93/20$ ($\approx 3.99/4$)
  - ❖ Diploma: $19.75/20$ ($\approx 3.95/4$)

AWARDS AND HONORS

- **Technical committee,** Rescue Virtual Robot League, **Robocup IranOpen 2016**, Tehran, Iran, April 2016

- **2nd Place**,Rescue Agent Simulation League, **Robocup IranOpen 2016**, Tehran, Iran, As a member of **S.O.S** Team, April 2016.

- **1st Place**,Rescue Agent Simulation League, **Robocup World Championship 2015,** Hefei, China, As a member of **S.O.S** Team, July 2015.

- Awarded honorary **direct admission** to graduate school (M.Sc.) of Computer Engineering Department, **Sharif University of Technology,** September 2015.

- **1st Place**,Rescue Agent Simulation League, **Robocup World Championship 2014,** João Pessoa, Brazil, As a member of **S.O.S** Team, July 2014.

- **1st Place**,Rescue Agent Simulation League,**Robocup IranOpen 2014,** Tehran, Iran, As a member of **S.O.S** Team, April 2014.

- **22nd Place,** Data Mining, 15th **International Data Mining Cup Competition,** Berlin, Germany, As a member of **TU_Amirkabir_2** Team, 2014.

- **2nd Place**,Rescue Agent Simulation League,**Robocup World Championship 2013**, Eindhoven, Netherlands, As a member of **S.O.S** Team, June 2013.

- Selected as a member of National Olympiad in Computer Engineering team of **Amirkabir University of Technology** as a result of outstanding performance,September 2013.

- **1st Place**,Rescue Agent Simulation League,**Robocup PNUOpen 2013,** Mashhad, Iran, As a member of **S.O.S** Team, September 2013.

- **Ranked 2nd** among undergraduate students in Information Technology, **Amirkabir University of Technology**, 2013.

- Eligible to change current major (**Information Technology**) to **Software Engineering** and also Eligible to choose **second major** due to outstanding performance, 2013.

- **2nd Place**,Standard Platform League, **Robocup IranOpen 2012**, Tehran, Iran, As a member of **AUTManNao** Team, April 2012.

- **2nd Place**,Standard Platform League, **Robocup AUTCup 2012**, Tehran, Iran, As a member of **AUTManNao** Team, November 2012.

- **6th Place**, Standard Platform League, **Robocup World Championship 2012**, Mexico city, Mexico, As a member of **AUTManNao**, June 2012.

- Ranked in the top **2% to 5%** students of Computer Engineering Department; consequently, recognized as **Outstanding Student** by the university, 2011 – 2014.

- Ranked as top **0.2%** among more than **450,000** participants in the **National University Entrance exam in** Engineering and Applied Mathematics, August 2011.

- **2nd Place**, Soccer Simulation 2D Student League, **6th** SS2D Competition of **Ministry of Education**, Tehran, Iran, As a member of **Zenith** Team, June 2009.
- **5th Place**, Soccer Simulation 2D Collegian League, **Robocup AUTCup 2009**, Tehran, Iran, As a member of **Fahrenheit** (High School) Team, November 2009.
- **8th Place**, Soccer Simulation 2D Collegian League, **Robocup IranOpen 2009,** Tehran, Iran, As a member of **Zenith** (High School) Team, April 2009.
- **2nd Place**, Computer Programming Contest, **Ministry of Education**, Tehran, Iran, June 2008.
- **9th Place**, Soccer Simulation 2D Collegian League, **Robocup IranOpen 2008**, Tehran, Iran, As a member of **Zenith** (High School) Team, April 2008.
- **3rd Place**, Computer Programming Contest, **Ministry of Education**, Tehran, Iran, June 2007.

JOB EXPERIENCE

- **Ratnic Company,** Tehran, Iran   2013 - 2015
  Software Designer, Web programmer, Mobile application programmer
- **Rapna Company,** Tehran, Iran   2013-2014
  Software Designer, Android programmer
- **Raymand Company,** Tehran, Iran   2012 -2013

  Researching on different web vulnerability scanners in order to make a better scanner for websites built by the company.

- **Manzoumeh kherad Institute,** Tehran, Iran   2013 – 2015
  Supervisor of Computer Department.

  Researching on motion,cognition,behavior of robots and using different Learning algorithms in robot behavior model and decision making.

TEACHING EXPERIENCE

- Teacher, **Sharif University of Technology**
    - **Computer Workshop,** Dr.morteza Amini   Spring 2016

- Teaching Assistant, **Amirkabir University of Technology**
    - **Principles of Computer and Programming**, Dr.shiry Ghidary   2012 - 2013
    - **Advanced Computer Programming,** Dr. Nourhosseini   Spring 2013
    - **Advanced Computer Programming**, Dr. Pourvatan   Spring 2014
    - **Data Structures & Algorithms**, Dr. DehghanTakhtFooladi   2013 - 2014
- Teacher, **Allame Tabatabae High School**
    - **Mathematical Olympiad Teacher**   Fall, Winter   2009
    - **Computer Olympiad Teacher**   Fall, Winter   2009
    - **Robotic & Computer Programming Teacher**   Fall, Winter 2009
- Robotic Teacher, **Manzoumeh kherad Institute**
    - **Rescue Simulation League**   June 2013 – 2016
      4th Place, Rescue Agent Simulation League, **Robocup World Championship 2014**, João Pessoa, Brazil, As a Teacher and leader of **Kherad** Team, July 2014. In the first year of participation
    - **Junior Demo League**   June 2013 - April 2014
      2nd Place, Junior Demo Open Challenge, **Robocup IranOpen 2014**, Tehran, Iran,As a Teacher and Software Leader Of **Kherad** Team,April 2014. Design and manufacture of group of nurse robots
    - **Junior Soccer League**   July 2014 – 2015
    - **CoSpace Rescue Challenge**   July 2014 – 2015

- Teacher, **Salam Highschool**
    - **Robotic & Computer Programming Teacher**   June 2016 – present

- Teacher, **National Organization for Development of Exceptional Talents,**
    - **Robotic & Computer Programming Teacher**   June 2016 – present

ONLINE EDUCATION

- Artificial Intelligence   Sebastian Thrun, Peter Norvig
- Linear Algebra   Gilbert Strang
- Machine Learning   Andrew Ng
- Artificial Intelligence for Robotics   Sebastian Thrun

PUBLICATIONS

- Iravani,E , Korghond,N.K, Moosavinejad.A, **Aghababa.F,P** , Tavassoli.F, JanaTi,F,Ghidary.S.S. "**RoboCup Rescue 2015 –Robot League Team, ARC-AUT Team Description Paper**"

- TaherAhmadi.M, **Aghababa.F,P** , F,Ghidary.S.S,Azami.S, MahmoudPour.S, Mohammadi.M. "**RoboCup 2016 –Rescue Virtual Robot League , S.O.S VR Team Description Paper**"

- Modaresi,M.R, Golshahi,Y, **Aghababa, F.P**., Taheri,P., Haeri,N., & Rezayi,M. "**RoboCup Rescue 2014 –S.O.S Rescue Simulation League Team Description Paper**"

- Modaresi,M.R, Golshahi,Y, **Aghababa, F.P**., Taheri,P., Haeri,N., & Rezayi,M. "**RoboCup 2014 –S.O.S Rescue Simulation Infrastructure League Team Description Paper**"

- Tamiz, M., Bararian, E., Shangari, T. A., Karimi, M., **Aghababa,F.P**., & Bahrami, M. "**RoboCup 2014 -AUTMan Humanoid KidSize Team Description Paper**".

- Tamiz, M., Bararian, E., Shangari, T. A., Karimi, M., **Aghababa,F.P**., & Bahrami, M. "**RoboCup 2014 -AUTMan Humanoid Kid-Size Robots Specification Paper** ".

- Sadeghnejad,S.,Dezfuli.S.S,Tamiz.M.,Bararian.E.,… **Aghababa,F.P**., & Bahrami, M."" **Robocup 2013 -AUTManNao Team Description Paper**"

- Sadeghnejad,S.,Dezfuli.S.S,Tamiz.M.,Bararian.E.,… **Aghababa,F.P**., & Bahrami, M."**Robocup 2012 -AUTManNao Team Description Paper**"

LECTURES AND PRESENTATION

- **World modeling using probabilistic multiple hypothesis anchoring**, AmirKabir University of Technology, Persian, 2014
- Robotic and autonomous systems **IRIB TV 3**, 'Vitamin C' live TV show, Persian, 2014
- Robotic and autonomous systems **IRIB TV 1**, '17+' live TV show, Persian, 2015
- Robotic and SPL , **BBC Interview**, English , Robocup 2012

PROFESSIONAL MEMBERSHIP

Member of AmirKabir University of Technology's Robotic teams:

- Rescue simulation, **S.O.S** , 2013 –2015
- Rescue Real Robot, **Pasargad** , 2014 –2015

- Virtual Rescue Robot, **S.O.S VR**, 2016-present
- Robocup Soccer:
  - Humanoid TeanSize, **AUTUofM**, 2013-2014
  - Humanoid KidSize, **AUTMan**, 2013-2015
  - Standard Platform , **AUTManNao** ,2011-2013
  - Simulation 2D, **Zenith** ,2008-2010

TECHNICAL REPORT

- An Introduction to **Software Architecture**
- An Introduction to **Event-Based Architecture**, **Distributed system**
  Independent components، **Service Oriented** Architecture
- Writing good **GNU/Linux Software**
- **Game theoretic control** for robot teams
- Comparison of different **Robot Behavior Engines**
- Comparison of different **Robot Frameworks**
- Engineering **Machine Learning** Techniques into Multi-Agent Systems

SKILLS AND EXPERIENCES

- **Languages:**
  Fluent in
  - ❖ C,C++ ,QT, Python, Java ,Android, HTML4 ,CSS2, Javascript, JQuery, SQL,Visual Basic, Turbo Pascal
  Familiar With
  - ❖ c# , opencv, ML, Ocaml , PHP, Assembly ,Bash Scripting, Linux programming
- **Tools and Libraries**
  Fluent in
  - ❖ Octave, Matlab,MySQL,Pspice,Verilog,Proteus,JustInMind,ForeUI
  Familiar With
  - ❖ Bootsrap, RapidMiner, Weka
- **Typesetting:**
  - ❖ LaTeX,FarsiTeX,Word,OpenOffice
- **Experiences** :
  - ❖ ROS(Robotic Operation System)
  - ❖ Robot Behavior Engines such as XABSL, Lua, Posh
  - ❖ Game theory's Frameworks for Cooperative Multi-Robot Systems such as POSG, BaGA
  - ❖ Machine Learning , Reinforcement learning, Computer vision , Image Processing , Pattern Recognition, Natural Language Processing
  - ❖ Play Frame work for web developing

LANGUAGE SKILLS

- **Farsi (Persian):** Native
- **English**: Fluent
- **Arabic:** Familiar

REFRENCES

- **Prof.Saeed Shiry Ghidary**
  Assistant Professor of Computer Engineering & IT Department, Amirkabir University of Technology
  Email:**shiry@aut.ac.ir**

- **Prof. Mohsen Bahrami**
  Professor of Mechanical Engineering Department , Amirkabir University of Technology
  Email: mbahrami@aut.ac.ir

- **Prof. Mehdi DehghanTakhtFooladi**
  Associate Professor of Computer Engineering & IT Department, Amirkabir University of Technology
  Email: **dehghan@aut.ac.ir**

- **Prof. Bahman Pourvatan**
  Assistant Professor of Computer Engineering & IT Department, Amirkabir University of Technology
  Email:**pourvatb@aut.ac.ir**