Fatemeh Pahlevan Aghababa

PERSONAL INFORMATION

- Mobile Number : +989125169683
- Address: No. 21,19/1 St,Ebnesina Ave, Tehran-Iran
- Email: reyhaneh.pahlevan@{gmail.com,aut.ac.ir}
- Linkedin: http://ir.linkedin.com/pub/reyhaneh-pahlevan/76/389/a6

RESEARCH INTERESTS

- Collabrative Learning is MAS
- Machine Learning
- Robot Vision
- Human Computer Intraction
- Data Mining

EDUCATION

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

  Cumulative Grade Average till now for:

  - ❖ Total 106 units: 17.50/20   ($\approx$ 3.50 /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)

  - ❖ Last year courses: 17.88/20   ($\approx$ 3.60 /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)

ACHIVEMENTS AND AWARDS

- **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**,TeanSize Technical Challenge,Robocup Soccer Humanoid, **Robocup World Championship 2014,** João Pessoa, Brazil, As a member of **AUTUofM** Team, July 2014.
- **1ˢᵗ Place**,Rescue Agent Simulation League,**Robocup IranOpen 2014,**Tehran,Iran, As a member of **S.O.S** Team, April 2014.
- **1ˢᵗ Place**,Rescue Agent Simulation League,**Robocup PNUOpen 2013,** Mashhad, Iran, As a member of **S.O.S** Team, September 2013.
- **2ⁿᵈ Place**,Rescue Agent Simulation League,**Robocup World Championship 2013**, Eindhoven, Netherlands, As a member of **S.O.S** Team, June 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.
- **2ⁿᵈ Place**, Computer Programming Contest, **Ministry of Education**, Tehran, Iran,June 2008.
- **2ⁿᵈ Place**, Soccer Simulation 2D Student League, **6ᵗʰ** SS2D Competition of **Ministry of Education**, Tehran, Iran, As a member of **Zenith** Team, June 2009.
- **3ʳᵈ Place**, Computer Programming Contest, **Ministry of Education**, Tehran, Iran,June 2007.
- **5ᵗʰ Place**, Rescue Agent Simulation League,**Robocup IranOpen 2014,** Tehran, Iran, As a member of **Kherad** Team, April 2014.
- **5ᵗʰ Place**, Soccer Simulation 2D Collegian League, **Robocup AUTCup 2009**, Tehran, Iran, As a member of **Fahrenheit** (High School) Team, November 2009.
- **6ᵗʰ Place**, Standard Platform League, **Robocup World Championship 2012**, Mexico city, Mexico, As a member of **AUTManNao**, June 2012.
- **8ᵗʰ Place**, Soccer Simulation 2D Collegian League, **Robocup IranOpen 2009,** Tehran, Iran, As a member of **Zenith** (High School) Team, April 2009.

- **9ᵗʰ Place**, Soccer Simulation 2D Collegian League, **Robocup IranOpen 2008**, Tehran, Iran, As a member of **Zenith** (High School) Team, April 2008.
- **18ᵗʰ Place**, Soccer Simulation 2D League, **Robocup World Championship 2009** Graz, Austria, As a member of **Zenith** (High School) Team, July 2009.

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

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

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

- Awarded honorary **direct admission** to graduate school (M.Sc.) of Computer Engineering Department, **Amirkabir University of Technology** in the cause of high academic records and achievements in Robotics, 2014.

- 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.

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

TEACHING EXPERIENCE

- Teaching Assistant, **Amirkabir University of Technology**
  Giving lectures, Preparing the homeworks, projects,grading.
  - **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**
  Preparing students for participating in Olympiads.
  - **Mathematical Olympiad Teacher**   Fall, Winter   2009
  - **Computer Olympiad Teacher**   Fall, Winter   2009
  Preparing students for participating in Computer Programming Contest held by **Ministry of Education**.
  - **Robotic & Computer Programming Teacher**   Fall, Winter 2009

- Robotic Teacher, **Manzoumeh kherad Institute**
  - **Rescue Simulation League**   June 2013 – present
    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
  - **Soccer Simulation League**   July 2014 – present
  - **CoSpace Rescue Challenge**   July 2014 – present

JOB EXPERIENCE

- **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 – present
  Supervisor of Computer Department.

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

ONLINE EDUCATION

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

PUBLICATIONS

- 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**,Persian, 2014
- 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 –Present
- Rescue Real Robot, **Pasargad** , 2014 –Present
- Robocup Soccer:
  - Humanoid TeanSize, **AUTUofM**, 2013-Present
  - Humanoid KidSize, **AUTMan**, 2013-Present
  - Small Size, **Parsian** , Aug 2014 –Present
  - 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 development, HTML4 ,CSS2,SQL,Visual Basic, Turbo Pascal

  Familiar With
  - ❖ c# , opencv, ML, Ocaml , PHP, ,javascript, Assembly ,Bash Scripting, Linux programming

- **Tools and Libraries**
  Fluent in
  - ❖ Octave,Weka,MySQL,Pspice,Verilog,Proteus

  Familiar With
  - ❖ RapidMiner, Matlab

- **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

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**