

Curriculum Vitae

Alireza Taheri

PRESENT POSITION

2019-Present Assistant Professor, Mechanical Engineering Department,
Sharif University of Technology, Tehran, Iran

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Head of the Social and Cognitive Robotics Laboratory, Center of Excellence in Design, Robotics, and Automation (CEDRA), Mechanical Engineering Department, Sharif University of Technology, Azadi Street, Tehran, Iran.

EDUCATION

2018-2019 Post-Doctoral Researcher, Social and Cognitive Robotics Lab.,
Sharif University of Technology, Tehran, Iran

Funded by *Iran's National Elites Foundation* (Shahid Chamran Grant)

Research: Utilizing Social Robots and Virtual Reality Systems for Education and Cognitive
Rehabilitation of Children
Supervisor: Dr. Ali Meghdari

2011-2017 Ph.D. in Mechanical Engineering
Sharif University of Technology, Tehran, Iran

GPA of Courses: 18.62/20, Thesis Grade: Excellent

Thesis: Modeling, Design, and Application of Humanoid Robots
for Treatment of Children with Autism

Supervisor: Dr. Ali Meghdari, Co-Advisers: Dr. HamidReza Pouretamad, Dr. Minoo Alemi

Oct. 2016-April 2016 Visiting Student at Technology and Innovative Lab. (TIL),
Child Study Center, Yale School of Medicine, Yale University,
New Haven, CT, USA

Supervisors: Dr. Laura Boccanfuso, Dr. Brian Scassellati, Dr. Katarzyna Chawarska

April 2015-Oct. 2015 Visiting Student at Electrical and Computer Engineering Department,
University of Denver, Denver, CO, USA

Supervisor: Dr. Mohammad H. Mahoor

2009-2011 M.Sc. in Mechanical Engineering
Sharif University of Technology, Tehran, Iran

GPA: 18.41/20

Thesis: Developing a Molecular Dynamics Simulation Software for Modeling of Nano-Contact
Processes (*CEDRA Molecular Dynamics Software*),

Supervisors: Dr. Ali Meghdari, Dr. Seyed Hanif Mahboobi

2005-2009 B.Sc. in Mechanical Engineering
Sharif University of Technology, Tehran, Iran
GPA: 18.23/20

Thesis: Holonomic Constraints in Wheeled Mobile Robots, Supervisor: Dr. Ali Meghdari

2001-2005 Diploma with math and physics discipline,
National Organization for Development of Exceptional Talents, Lar, Iran
GPA: 19.75/20

HONORS AND AWARDS

- Getting the 3rd Place for designing “Virtual Reality Games for Elderly Care”, Cognotech Challenge for Cognitive Rehabilitation of Elderly People, Vice-Presidency for Science and Technology, Tehran, Iran, Dec. 2020.
- Winner of the Prize for designing “Autism Park: A Virtual Reality Game for Education and Cognitive Rehabilitation of Children with Autism”, 4th Serious Games Prize 2020, Tehran, Iran, Nov. 2020.
- Winner of the Prize for designing “The Virtual Room for Cognitive Rehabilitation of Children with Autism”, 3rd Serious Games Prize 2019, Shahid Beheshti University, Tehran, Iran, Nov. 2019.
- Winner of the Best Robot Design in Software Category for “The Virtual Social Toys: Bringing Inanimate Toys to Life”, ICSR2018, Qingdao, China, Nov. 2018.
- Winner of the Shahid Chamran Grant by the Iran’s National Elites Foundation to be a Post-Doctoral Researcher at Sharif University of Technology, 2018.
- Winner of the Dr. MohammadHossein KargarNovin’s Memorial Award, Mechanical Engineering Department, Sharif University of Technology, Iran, 2018.
- Winner of the Best Robot Design in Innovative Idea Category for “The Social WATER: Water Awareness Teaching and Educational Robot”, ICSR2016, Kansas City, USA, Nov. 2016.
- Winner of the Scholarship Award by the “Cognitive Science and Technologies Council of Iran” to attend one of the International Universities as a Visiting Student, 2016.
- One of the 7 students who have been Directly Admitted to the Mech. Eng. Ph.D. Program at Sharif University of Technology, based on Excellent M.Sc. Records, 2011.
- Winner of Sharif Univ. of Tech. **Distinguished Student Award** and Candidate for National Distinguished Student Award, Dec 2010.
- Ranked **5th** among 40 graduate students of Applied Mechanics, Mechanical Engineering Department, Dec 2010.
- One of the 5 students selected participants of Sharif Univ. of Tech. to attend the National Mechanical Engineering Olympiad, Feb 2009.
- Directly admitted to the Mech. Eng. M.Sc. Program at Sharif University of Technology, based on Excellent B.Sc. Records, 2008.
- Ranked **5th** among 120 undergraduate students of Mechanical Engineering Department, 2009.
- Ranked **175th** among about 300000 participants in the National Entrance Exam for B.Sc. degree in Science and Engineering, 2005.
- **Gold Medal** in the **16th Chess Team Competition of Iranian University Students**, Esfahan, 2007.
- **Semifinalist** in Iran National Olympiads: Computer and Literature, 2003.
- **Silver Medal** in Mathematical Olympiad of Teenagers in Fars Province, Aug 1998.

RESEARCH INTERESTS

- Human-Robot Interaction (HRI)
- Social and Cognitive Robotics
- Virtual Reality Systems for Education and Rehabilitation
- Children with special needs
- Artificial Intelligence: Machine Learning, Pattern Recognition, and Deep Learning.
- Dynamic Systems and Control.
- Brain-Robot Interface.

PUBLICATIONS

Journal Papers (ISI): [Corresponding authors have been Underlined]

- Hosseini, S. R., **Taheri, A.**, Alemi, M., and Meghdari, A. (2021) One-shot Learning from Demonstration Approach Toward a Reciprocal Sign Language-based HRI. International Journal of Social Robotics, DOI: <https://doi.org/10.1007/s12369-021-00818-1>
- Basiri, S., **Taheri, A.**, Meghdari, A., Boroushaki, M., and Alemi, M. (2021) Dynamic Iranian Sign Language Recognition Using an Optimized Deep Neural Network: an Implementation via a Robotic-based Architecture. International Journal of Social Robotics, DOI: <https://doi.org/10.1007/s12369-021-00819-0>
- Saffari, E., Hosseini, S. R., **Taheri, A.**, Meghdari, A. (2021). “Does Cinema Form the Future of Robotics?”: A Survey on Fictional Robots in Sci-Fi Movies. SN Applied Sciences, Topical Collection on Engineering Education Research (EER), **3**, 655 (2021), DOI: <https://doi.org/10.1007/s42452-021-04653-x>
- Basiri, S., **Taheri, A.**, Meghdari, A. and Alemi, M. (2021) Design and Implementation of a Robotic Architecture for Adaptive Teaching: A Case Study on Iranian Sign Language. Journal of Intelligent & Robotic Systems, 102, 48 (2021). <https://doi.org/10.1007/s10846-021-01413-2>
- **Taheri, A.**, Shariati, A., Heidari, R., Shahab, M., Alemi, M. and Meghdari, A. Impacts of using a social robot to teach music to children with low-functioning autism. Paladyn, Journal of Behavioral Robotics, vol. 12, no. 1, 2021, pp. 256-275. <https://doi.org/10.1515/pjbr-2021-0018>
- Shahab, M., **Taheri, A.**, Mokhtari, M., Shariati, A., Heidari, R., Meghdari, A., Alemi, M. Utilizing social virtual reality robot (V2R) for music education to children with high-functioning autism. Education and Information Technologies (2021). <https://doi.org/10.1007/s10639-020-10392-0>
- **Taheri, A.**, Meghdari, A. & Mahoor, M.H. A Close Look at the Imitation Performance of Children with Autism and Typically Developing Children Using a Robotic System. International Journal of Social Robotics (2020). <https://doi.org/10.1007/s12369-020-00704-2>

- Aliasghari, P., **Taheri, A.**, Meghdari, A., Maghsoodi, E. (2020). Implementing a gaze control system on a social robot in multi-person interactions. SN Applied Sciences, Topical Collection on Socio-Cognitive Engineering (SCE), DOI: <https://doi.org/10.1007/s42452-020-2911-0>
- **Alemi, M.**, **Taheri, A.**, Shariati, A., **Meghdari, A.** (2020). Social Robotics, Education, and Religion in the Islamic World: An Iranian Perspective. Journal of Science and Engineering Ethics, <https://doi.org/10.1007/s11948-020-00225-1>
- Zibafar, A., Saffari, E., **Alemi, M.**, **Meghdari, A.**, Faryan, L., Pour, A. G., ... & **Taheri, A.** (2019). State-of-the-Art Visual Merchandising Using a Fashionable Social Robot: RoMa. International Journal of Social Robotics, 1-15.
- **Taheri, A.**, Meghdari, A., **Alemi, M.**, & Pouretamad, H. (2019). Teaching music to children with autism: a social robotics challenge. Scientia Iranica, 26(1), 40-58.
- Pour, A. G., **Taheri, A.**, Alemi, M., & **Meghdari, A.** (2018). Human–robot facial expression reciprocal interaction platform: case studies on children with autism. International Journal of Social Robotics, 10(2), 179-198.
- **Taheri, A.**, **Meghdari, A.**, Alemi, M., & Pouretamad, H. R. (2018). Clinical interventions of social humanoid robots in the treatment of a pair of high-and low-functioning autistic Iranian twins. Scientia Iranica. Transaction B, Mechanical Engineering, 25(3), 1197-1214.
- **Taheri, A.**, **Meghdari, A.**, Alemi, M., & Pouretamad, H. (2018). Human–robot interaction in autism treatment: a case study on three pairs of autistic children as twins, siblings, and classmates. International Journal of Social Robotics, 10(1), 93-113.
- **Mahboobi, S. H.**, **Taheri, A.**, Pishkenari, H. N., Meghdari, A., & Hemmat, M. (2015). Cellular injection using carbon nanotube: A molecular dynamics study. Nano, 10(02), 1550025.
- Taheri, M., **Mohebbi, A.**, & **Taheri, A.** (2010). Simulation of SO₂ absorption in a venturi scrubber. Chemical Engineering Communications, 197(7), 934-952.

ISC:

- **Taheri, A.**, Meghdari, A., Alemi, M., & Pouretamad, H. R. (2019). Impacts of Social Robots in Education and Rehabilitation of Children with Autism in Iran, Amirkabir Journal of Mechanical Engineering, doi: 10.22060/MEJ.2019.15434.6121 (in Persian)

Conference Papers:

- Mashaghi, M., **Taheri, A.**, Behzadipour, S., Boroushaki, M. (2020). Proposing an Empirical Motion-Time Pattern of Human Gaze Behaviors in a Social Situation. In 2020 8th International Conference on Robotics and Mechatronics (ICRoM), Tehran, Iran, Nov. 2020.
- Hosseini, S. R., **Taheri, A.**, Meghdari, A., & Alemi, M. (2019, November). Teaching Persian Sign Language to a Social Robot via the Learning from Demonstrations Approach. In International Conference on Social Robotics (pp. 655-665). Springer, Cham.

- Ahmadi, E., Pour, A. G., Siamy, A., **Taheri, A.**, & Meghdari, A. (2019, November). Playing Rock-Paper-Scissors with RASA: A Case Study on Intention Prediction in Human-Robot Interactive Games. In International Conference on Social Robotics (pp. 347-357). Springer, Cham.
- Shahab, M., Raisi, M., Hejrati, M., **Taheri, A. R.**, & Meghdari, A. (2019, November). Virtual Reality Robot for Rehabilitation of Children with Cerebral Palsy (CP). In 2019 7th International Conference on Robotics and Mechatronics (ICRoM) (pp. 63-68). IEEE.
- Esfandbod, A., Rokhi, Z., **Taheri, A.**, Alemi, M., & Meghdari, A. (2019, November). Human-Robot Interaction based on Facial Expression Imitation. In 2019 7th International Conference on Robotics and Mechatronics (ICRoM) (pp. 69-73). IEEE.
- **Taheri Alireza**, Shahab Mojtaba, Meghdari Ali, Alemi Minoo, Amoozandeh Nobaveh Ali, Rokhi Zeynab, Ghorbandaei Pour Ali, 2018, “*Virtual Social Toys: A Novel Concept to Bring Inanimate Dolls to Life*”, 10th International Conference on Social Robotics (ICSR2018), Qingdao, China, November 28th-30th 2018.
- Hosseini Seyed Ramezan, **Taheri Alireza**, Meghdari Ali, Alemi Minoo, 2018, ““*Let There be Intelligence!*”- A Novel Cognitive Architecture for Teaching Assistant Social Robots”, 10th International Conference on Social Robotics (ICSR2018), Qingdao, China, November 28th-30th 2018.
- Tavakkolelahy Maryam, Habibnejad Korayem Amin, Shariati Azadeh, Meghdari Ali, Alemi Minoo, Ahmadi Ehsan, **Taheri Alireza**, Heidari Rozita, 2017, ““*Xyloism*”: A Tablet-Based Application to Teach Music to Children with Autism”, 9th International Conference on Social Robotics (ICSR2017), Tsukuba, Japan, November 22nd-24th 2017.
- Alemi Minoo, Meghdari Ali, Saffari Ehsan, Zibafar Ahmad, Faryan Leila, Ghorbandaei Pour Ali, RezaSoltani Amin, **Taheri Alireza**, 2017, “*RoMa: A Hi-tech Robotic Mannequin for the Fashion Industry*”, 9th International Conference on Social Robotics (ICSR2017), Tsukuba, Japan, November 22nd-24th 2017.
- Shahab Mojtaba, **Taheri Alireza**, Mokhtari Mohammad, Hosseini Seyed Ramezan, Meghdari Ali, Alemi Minoo, Pouretamad HamidReza, Shariati Azadeh, Ghorbandaei Pour Ali, 2017, “*Social Virtual Reality Robot (V2R): A Novel Concept for Education and Rehabilitation of Children with Autism*”, The 5th RSI/IEEE International Conference on Robotics and Mechatronics, ICRoM 2017, Amirkabir U., Tehran, Iran, October 25th-27th 2017.
- Meghdari Ali, Alemi Minoo, **Taheri Alireza**, Hatefipour Mehdi, 2016, “*The Social WATER Robot: an Exciting Educational Tool for Teaching Children about Water Awareness and Conservation*”, 8th International Conference on Water and Environment in the New Millennium (WENM2016), Tehran, Iran, November 1st-3rd 2016.
- **Taheri Alireza**, Meghdari Ali, Alemi Minoo, Pouretamad HamidReza, Poorgoldooz Pegah, Roohbakhsh Maryam, 2016, “*Social Robots and Teaching Music to Autistic Children: Myth or Reality?*”, 8th International Conference on Social Robotics (ICSR2016), Kansas City, USA, November 1st-3rd 2016.
- Meghdari Ali, Alemi Minoo, Ghorbandaei Pour Ali, **Taheri Alireza**, 2016, “*Spontaneous Human-Robot Emotional Interaction through Facial Expressions*”, 8th International Conference on Social Robotics (ICSR2016), Kansas City, USA, November 1st-3rd 2016.
- **Taheri Alireza**, Meghdari Ali, Alemi Minoo, Pouretamad HamidReza, 2016, “*Impact of Humanoid Social Robots on Improving the Cognitive and Social Skills of Children with Autism*”

in Iran”, ISME2016, The 24th International Conference on Mechanical Engineering, Yazd, Iran, May 2016, (*In Persian*)

- **Taheri Alireza**, Alemi Minoo, Meghdari Ali, Pouretemad Hamid Reza, Mahboob Basiri Nasim, Poorgoldooz Pegah, 2015, “*Impact of Humanoid Social Robots on Treatment of a Pair of Iranian Autistic Twins*”, 7th International Conference on Social Robotics (ICSR2015), Paris, France, October 26th-30th 2015.
- Alemi Minoo, Meghdari Ali, Mahboob Basiri Nasim, **Taheri Alireza**, 2015, “*The Effect of Applying Humanoid Robots as Teacher Assistants to Help Iranian Autistic Pupils Learn English as a Foreign Language*”, 7th International Conference on Social Robotics (ICSR2015), Paris, France, October 26th-30th 2015.
- **Taheri A.R.**, Alemi M., Meghdari A., Pouretemad H.R., Holderread S.L., 2014, “*Clinical Application of Humanoid Robots in Playing Imitation Games for Autistic Children in Iran*”, 14th Int. Educational Technology Conference (IECT), Chicago, IL, USA, Procedia - Social and Behavioral Sciences, Sept. 3-5, 2014.
- **Taheri Alireza**, Alemi Minoo, Meghdari Ali, Pouretemad HamidReza, Mahboob Basiri Nasim, 2014, “*Social Robots as Assistants for Autism Therapy: Research in Progress*”, The 2nd RSI International Conference on Robotics and Mechatronics, ICRoM 2014, Khaje Nasir U., Tehran, Iran, October 2014.
- Meghdari Ali, Alemi Minoo, Pouretemad HamidReza, **Taheri Alireza**, Mahboob Basiri Nasim, Roshani Arash, Nasiri Negin, Aghasizadeh Mahdieh, 2014, “*Utilizing Humanoid Robots in Teaching Motor and Social Skills to Children with Autism*”, 3rd Basic Clinical and Neuroscience Congress 2014, Tehran, Iran, Oct. 2014, **Extended Abstract**.
- Alemi Minoo, Meghdari Ali, Pouretemad HamidReza, Mahboob Basiri Nasim, **Taheri Alireza**, Roshani Arash, Nasiri Negin, Aghasizadeh Mahdieh, 2014, “*The Effect of Humanoid Robots on Helping Iranian Autistic Children in Learning English as a Foreign Language*”, 3rd Basic Clinical and Neuroscience Congress 2014, Tehran, Iran, Oct. 2014, **Extended Abstract**.
- Meghdari Ali, Alemi Minoo, Pouretemad HamidReza, **Taheri Alireza**, “*Clinical Application of a Humanoid Robot in Playing Imitation Games for Autistic Children in Iran*”, 2nd Basic Clinical and Neuroscience Congress 2013, Tehran, Iran, Dec. 2013, **Extended Abstract**. (*in Persian*)
- Meghdari Ali, Alemi Minoo, **Taheri Alireza**, 2013, “*The Effects of Using Humanoid Robots for Treatment of Individuals with Autism in Iran*”, 6th Neuropsychology Symposium 2013, Tehran, Iran, Dec 2013, **Extended Abstract**. (*in Persian*)
- Meghdari Ali, Alemi Minoo, Ghaazisaidi Maryam, **Taheri Alireza**, Karimian Arman, Zandevakily Mersedeh, 2013, “*Applying Robots as Teaching Assistants in EFL Classes at Iranian Middle-Schools: A Conceptual Model*”, EMET2013, The 2013 International Conference on Education and Modern Educational Technologies, Venice, Italy, Sep 2013.

Books:

- **Taheri Alireza.**, Eslami B., Rafi'inia A., Rajebi H., 2010, “*Common Mistakes in Mathematics, Physics and Chemistry Courses for High School Students*”, Nov 2010, Kanoon Educational and Cultural Press, ISBN: 978-600-126-333-0 (*in Persian*).
- **Taheri Alireza.**, Malvandi M., Noori M., Hamzelo'I M., Tavana M., Rajebi H., 2010, “*Common Mistakes in Mathematics, Physics and Chemistry Courses for Pre-University*”

Students”, May 2010, Kanoon Educational and Cultural Press, ISBN: 978-600-126-015-5 (in Persian).

PATENTS

- Alemi Minoos, Meghdari Ali, **Taheri Alireza**, Ghaazisaidi Maryam, “Design and Utilization of Humanoid Robots in First and Second Language Teaching”, Center of Excellence in Design, Robotics and Automation (CEDRA), Sharif Univ. of Tech., patented in Iran, **Patent Number: 80841**.
- Beigzadeh Borhan, **Taheri Alireza**, Meghdari Ali, Monjazebeh Alireza., “Design and Fabrication of a Holonomic Robot with Spherical Wheels”, Center of Excellence in Design, Robotics and Automation (CEDRA), Sharif Univ. of Tech., patented in Iran, **Patent Number: 67938**.

(CEDRA Lab. website: <http://www.mech.sharif.ir/web/14039/1>)

TEACHING EXPERIENCES

- **Advanced Engineering Mathematics (Graduate)**, Mechanical Engineering Department, Sharif University of Technology, **2019-Present**. (<http://mech.sharif.edu>)
- **Robotics Lab. (Graduate)**, Mechanical Engineering Department, Sharif University of Technology, **2019-Present**. (<http://mech.sharif.edu>)
- **Measurement and Control Systems and Lab. (Undergraduate)**, Mechanical Engineering Department, Sharif University of Technology, **2019-Present**. (<http://mech.sharif.edu>)
- **Dynamics (Undergraduate)**, Mechanical Engineering Department, Sharif University of Technology, **fall 2019-Present**. (<http://mech.sharif.edu>)
- **Statics (Undergraduate)**, Department of Mechanical Engineering, Sharif University of Technology, **fall 2019-Present**. (<http://mech.sharif.edu>)
- **Statics (Undergraduate)**, Department of Materials Science and Engineering, Sharif University of Technology, **spring 2019**. (<http://mse.sharif.edu>)
- **Instructor, Statics and Strength of Materials (Undergraduate)**, Chemical and Petroleum Engineering Department, Sharif University of Technology, **fall 2012, spring 2013, and spring 2014**. (<http://che.sharif.edu>)
- **Social and Cognitive Robotics (Graduate)**, Mechanical Engineering Department, Sharif University of Technology, **to be presented from Fall 2021**. (<http://mech.sharif.edu>)

RESEARCH AND INDUSTRIAL EXPERIENCES

- **Iran National Science Foundation, INSF (Grant No. 98025100)**
Principal Investigator (PI), “*Implementing Adaptive Iranian Sign Language Teaching on the RASA Social Robot*”, 2020-2022. (Co-PI: Prof. Ali Meghdari, Consultant: Dr. Minoos Alemi)

• **Sharif University of Technology Grants, (Grant No. G980517)**

Principal Investigator (PI), “*Utilizing Social Robots and Virtual Reality Systems for Education and Cognitive Rehabilitation of Children with Special Needs in Iran*”, 2020-2023. (Co-PI: Prof. Ali Meghdari)

• **Teb-o-Sanat Tavanmand Company, Iran.**

Principal Investigator (PI), “*Design and Fabrication of a Bionic Hand for Individuals with Hand Amputation*”, 2020-2022. (Co-PI: Dr. Amir Nourani)

• **Cognitive Science and Technologies Council (CSTC)**

Principal Investigator (PI), “*Modeling and Application of a Social Robot for Cognitive Rehabilitation of Children with Dyslexia in Iran*”, 2019-2021. (Co-PIs: Prof. Ali Meghdari, and Dr. Minoo Alemi)

• **Iran National Science Foundation (INSF)**

Co-Principal Investigator (Co-PI), “*Designing a Robot Head for Studying Social Interaction with the Ability to Express Emotions Using a Projector*”, 2018-Present. (PI: Dr. Azadeh Shariati, Consultants: Prof. Ali Meghdari and Dr. Minoo Alemi)

• **Cognitive Science and Technologies Council (CSTC), (Grant No. 95p22)**

Research Assistant, “*Utilizing Robotics Technology and Intelligent Devices in Rehabilitation of Individuals with Autism in Iran*”, 2016-2018. (PI: Prof. Ali Meghdari, Consultant: Dr. Minoo Alemi)

• **Cognitive Science and Technologies Council (CSTC)**

Research Assistant, “*On the Modeling and Application of Humanoid Robots as Co-Therapist in Autism Treatment*”, 2014-2016. (PI: Prof. Ali Meghdari, Consultant: Dr. Minoo Alemi)

WORKING EXPERIENCES

• **Hushmand Afzar Robotics (Pishrobot), Tehran, Iran**

Training to work with KAI Robot and OLLO kits, summer 2013

(www.pishrobot.com)

• **Sharif Subway Environmental Design Team (SSED), Tehran, Iran**

CFD analyzer, “*Ventilation and Fire Protection System Design of Tehran Subway System*”, 2009

• **National Iran Gas Company (NIGC), Ghazvin, Iran**

Training at NIGC during 240 hours industrial internship, summer 2007

(www.nioc.ir)

STUDENTS

PhD Students:

1. Amirali Rasaeifard (Co-advised with Prof. A. Meghdari)
2. Seyed MohammadJafar Zolanvary (Co-advised with Prof. A. Meghdari)
3. Seyed Ramezan Hosseni (Co-advised with Prof. A. Meghdari, Consultant: Dr. M. Alemi), **Thesis title:** “*Design and Implementation of an Iranian Sign Language based Reciprocal Human-Robot Interaction using Implicit Memory and Imitation Learning Simulation*”
4. Alireza Esfandbod (Co-advised with Prof. A. Meghdari, Consultant: Dr. M. Alemi), **Thesis title:** “*Design and Implementation of a Face Recognition/Expression System on Social Robots*”

5. Mojtaba Shahab (Co-advised with Prof. A. Meghdari and Dr. Alemi, Consultant: Prof. H. Pouretemad), **Thesis title:** “*Design, Modeling, and Application of a Social Robot for Cognitive Rehabilitation of Children with Dyslexia in Iran*”

MSc Students:

1. Hamed Nazemi (Co-advised with Prof. A. Meghdari, Consultant: Dr. A. Ghazizadeh), **Thesis title:** “*Designing an emotion capturing system using EEG signals and human-robot interaction platform based on the captured emotion*”
2. Amirreza Aseman Rafat (Co-advised with Prof. A. Meghdari), **Thesis title:** “*Reproducing of social gestures in the RASA humanoid robot via dynamic movement primitives*”
3. Seyed Soroush Razavi (Co-advised with Prof. A. Meghdari), **Thesis title:** “*Design and implementation of a machine-learning-based context-aware system for adaptive social robots’ proxemics*”
4. Hossein Ranjbar, **Thesis title:** “*Designing an automatic system for continuous meaningful gesture recognition by deep learning and implementing it on the RASA social robot*”
5. Mohammad Nemati, **Thesis title:** “*Design and test of an EEG-based video game combined with an eye tracker*”
6. Mohammad Moein Jamei, (Co-advised with Prof. A. Meghdari and Dr. M. Alemi), **Thesis title:** “*Design and investigation of the impact of using virtual reality games on the elderly’s cognitive impairments*”
7. Hadi Zandieh (Co-advised with Prof. G.R. Vosoughi), **Thesis title:** “*Real-time Pattern Recognition of Hand Gestures based on Machine Learning Algorithms and Surface EMG*”
8. Mohammad Hossein Mashaghi (Co-advised with Dr. S. Behzadipour), **Thesis title:** “*Proposing an Empirical Motion-Time Pattern of Human Gaze Behaviors in Different Social Situations and Implementing the Pattern on the RASA Social Robot*”
9. Mostafa Nowrozi (Co-advised with Prof. A. Meghdari, Consultant: Dr. M. Soleymani), **Thesis title:** “*Design and Implementation of a Collision Avoidance Module in Dynamic Environment with Deep Reinforcement Learning on Arash Social Robot*”
10. Amir Gholipour (Co-advised with Dr. H. Mohammadzadeh), **Thesis title:** “*Designing an Automatic Lip-Reading System for Persian Words Using Deep Neural Networks and Implementing It on Rasa Social Robot*”
11. Sajjad Abbasi (Co-advised with Prof. A. Meghdari), **Thesis title:** “*Design and Impacts of Virtual Reality Games on Social and Cognitive Skills of Children with Autism Spectrum Disorders*”
12. Adel Alizadeh (Co-advised with Prof. A. Meghdari), **Thesis title:** “*Learning Interactive Skills of Nao Robot through Imitation Learning from Observation*”
13. Mobin Habibpour (Co-advised with Prof. A. Meghdari and Dr. A. Nemati), **Thesis title:** “*Semantic Visual SLAM System in Dynamic Environments*”
14. Salar Basiri (Co-advised with Prof. A. Meghdari, Consultant: Dr. M. Alemi), **Thesis title:** “*Implementing Adaptive Iranian Sign Language Teaching on RASA Robot*”, 2020.
15. Amirreza Razmjoo Fard (Co-advised with Prof. A. Meghdari), **Thesis title:** “*Teaching to Point at Different Objects as an Interactive Gesture to Robot by Learning from Demonstration*”, 2020.

BSc Students:

1. Alireza Kalantari, (Co-advised with Prof. A. Meghdari and Dr. A. Ghazizadeh), **BSc Project Area:** Brain-Robot Interface
2. Mohammad Hossein Mohammadi, **BSc Project Area:** Brain-Robot Interface
3. Morteza Memari, (Co-advised with Dr. A. Ghazizadeh), **BSc Project Area:** Brain-Robot Interface
4. Mohammad Mehdi Sakhaei, (Co-advised with Dr. M.H. Nadian), **BSc Project Area:** Brain-Robot Interface

5. Erfan Etesami, (Co-advised with Prof. A. Meghdari), **BSc Project Area:** Social Robotics, **2021.**
6. Mehdi Kermanshah, (Co-advised with Prof. A. Meghdari), **BSc Project Area:** Design and Fabrication of Taban-II Social Robot, **2021.**
7. Amirabbas Nesaei, **BSc Project Area:** Social Robotics for Children with ASD
8. Mohammad Hossein Jandaghi, (Co-advised with Dr. M. Alemi), **BSc Project Area:** Social Robots for Elderly Care, **2021.**
9. Hossein Khatiri, (Co-advised with Prof. A. Meghdari), **BSc Project Area:** Social Robotics, **2021.**
10. Seyed Amin Seyedzadeh, (Co-advised with Prof. A. Meghdari), **BSc Project Area:** Social Robotics, **2021.**
11. Amirhossein Hosseinejad, (Co-advised with Prof. A. Meghdari), **BSc Project Area:** Visual SLAM in Social Robotics
12. Ali Ghavami, (Co-advised with Prof. A. Meghdari), **BSc Project Area:** Visual SLAM in Social Robotics, **2021.**
13. Mohammadreza Masoumi, (Co-advised with Prof. A. Meghdari), **BSc Project Area:** Speech Recognition for Social Robots, **2021.**
14. Moein Rajabi, (Co-advised with Prof. A. Meghdari), **BSc Project Area:** GUI for Armin Social Robot, **2020.**
15. Zahra Rajaei, (Co-advised with Prof. A. Meghdari), **BSc Project Area:** Social Robotics, **2020.**
16. Mohammad Derakhti, **BSc Project Area:** Social Robotics, **2021.**
17. Darya Mirhosseini: (Co-advised with Prof. A. Meghdari), **BSc Project Area:** Facial Expressions and Appropriate Social Distances for Social Robots, **2019.**
18. Zahra Yousefizadeh, (Co-advised with Prof. A. Meghdari), **BSc Project Area:** Facial Expressions and Appropriate Social Distances for Social Robots, **2019.**
19. Pouria Aliasghari, (Co-advised with Prof. A. Meghdari), **BSc Project Area:** Gaze Control System for Social Robots, **2019.**
20. Ehsan Maghsoodi Neyestanaki, (Co-advised with Prof. A. Meghdari), **BSc Project Area:** Gaze Control System for Social Robots, **2019.**

INTERESTS AND HOBBIES

• Sport: Soccer and Chess

Comment: I have 6 medals in Iran national chess competitions:

- Gold medal in the **16th Chess Team Competition of Iranian University Students**, Esfahan, Fall 2007.
- Silver medal in "3rd NODET Games", Tehran, Iran, Aug 2003.
- Silver medal in Student Competition of Iranian Schools, Board 3, Kermanshah, Iran, Aug 2001.

• Interested in Graphic Works with computer.

• Science: Math and Astronomy.

• Literature: Persian poetry, Science Fictions.