

# Curriculum Vitae

## Alireza Taheri

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### PRESENT POSITION

**2024-Present** Associate Professor  
Mechanical Engineering Department,  
Sharif University of Technology, Tehran, Iran



**2022-Present** Vice Chairman of Undergraduate Education in  
Mechanical Engineering Department, Sharif University of Technology,  
Tehran, Iran

**2019-2024** 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. Postal Code: 1458889694.

### EDUCATION

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

## **RESEARCH INTERESTS**

- Human-Robot Interaction (HRI)
- Social and Cognitive Robotics
- Design/Use Robots and Virtual Reality Systems for Education and Rehabilitation
- Artificial Intelligence (AI)
- Using AI for Improving the Quality of Life of Individuals with special needs
- Dynamic Systems and Control
- Brain-Robot Interfaces (BRI)

## **PUBLICATIONS**

*My Google Scholar webpage:* <https://scholar.google.com/citations?user=HOD1jVcAAAAJ&hl=en>

*Journal Papers:* [Corresponding authors have been Underlined]

- Ranjbar, H., & **Taheri, A.** (2025). Continuous sign language recognition using intra-inter gloss attention. *Multimedia Tools and Applications*, 1-19., DOI: <https://doi.org/10.1007/s11042-025-20721-5>
- Zahedifar, R., Soleymani Baghshah, M., & **Taheri, A.** (2025). LLM-Controller: Dynamic Robot Control Adaptation Using Large Language Models. *Robotics and Autonomous Systems*, 104913., DOI: <https://doi.org/10.1016/j.robot.2024.104913>
- Mohammadzadeh, M., Ghadami, A., **Taheri, A.**, & Behzadipour, S. (2025). cGAN-based high dimensional IMU sensor data generation for enhanced human activity recognition in therapeutic activities. *Biomedical Signal Processing and Control*, 103, 107476., DOI: <https://doi.org/10.1016/j.bspc.2024.107476>
- Memari, M., and **Taheri, A.** (2024) Adaptive Teaching of the Iranian Sign Language Based on Continual Learning Algorithms, *IEEE Access* (2024), DOI: [10.1109/ACCESS.2024.3492056](https://doi.org/10.1109/ACCESS.2024.3492056)

- Asemanrafat, A., **Taheri, A.**, Meghdari, A. F. (2024) Trajectory Augmentation Method Based on Dynamic Movement Primitives. Iranian Journal of Science and Technology, Transactions of Mechanical Engineering, DOI: <https://doi.org/10.1007/s40997-024-00809-3>
- Gholipour, A., Mohammadzade, H., Ghadami, A., **Taheri, A.** (2024) Automatic Lip Reading of Persian Words by a Robotic System Using Deep Learning Algorithms. Iranian Journal of Science and Technology, Transactions of Electrical Engineering (2024). <https://doi.org/10.1007/s40998-024-00756-4>
- Shahab, M., **Taheri, A.**, Mokhtari, M., AsemanRafat, A., Kermanshah, M., Shariati, A., Meghdari, A. F. (2024). Manufacture and development of Taban: a cute back-projected head social robot for educational purposes. Intelligent Service Robotics, DOI: <https://doi.org/10.1007/s11370-024-00545-2>
- Mashaghi, M. H., **Taheri, A.**, & Behzadipour, S. (2024). Proposing an empirical motion-time pattern for human gaze behavior in different social situations. Sharif Journal of Mechanical Engineering, 40(1), 3-13 (*in Persian*). DOI: 10.24200/j40.2023.61604.1664
- Esfandbod, A., Rokhi, Z., Meghdari, A. F., **Taheri, A.**, Soleymani, Z., Alemi, M., & Karimi, M. (2023). Fast mapping in word-learning: A case study on the humanoid social robots' impacts on Children's performance. International Journal of Child-Computer Interaction, 38, 100614., DOI: <https://doi.org/10.1016/j.ijcci.2023.100614>
- Alizadeh Kolagar, S. A., **Taheri, A.**, & Meghdari, A. F. (2023). NAO robot learns to interact with humans through imitation learning from video observation. Journal of Intelligent & Robotic Systems, 109(1), 4., DOI: <https://doi.org/10.1007/s10846-023-01938-8>
- **Taheri, A.**, Atyabi, A., Meghdari, A., & Alemi, M. (2023). " Human-Robot Interaction for Children with Special Needs.". Frontiers in Robotics and AI, 10, 1206079., doi: 10.3389/frobt.2023.1206079
- Tajik, S., Ghahraman, M. A., Farahani, S., Rouhbakhsh, N., **Taheri, A.**, Bahramsari, P., & Jalaie, S. (2023). Development of a Smart Game Application for Auditory Training of Children with Spatial Processing Disorder in Iran: A Pilot Study. Auditory and Vestibular Research.
- Esfandbod, A., Rokhi, Z., Meghdari, A. F., **Taheri, A.**, Alemi, M., and Karimi, M. (2022) Utilizing an Emotional Robot Capable of Lip-Syncing in Robot-Assisted Speech Therapy Sessions for Children with Language Disorders. International Journal of Social Robotics, DOI: <https://doi.org/10.1007/s12369-022-00946-2>
- Esfandbod, A., Nourbala, A., Rokhi, Z., Meghdari, A. F., **Taheri, A.**, and Alemi, M. (2022) Design, Manufacture, and Acceptance Evaluation of APO: A Lip-syncing Social Robot Developed for Lip-reading Training Programs. International Journal of Social Robotics, DOI: <https://doi.org/10.1007/s12369-022-00933-7>

- 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>
- **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 (*in Persian*). doi: 10.22060/MEJ.2019.15434.6121
- 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., & Pouretemad, 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., & Pouretemad, 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., & Pouretemad, 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 SO<sub>2</sub> absorption in a venturi scrubber. *Chemical Engineering Communications*, 197(7), 934-952.

#### ***Books and/or Book Chapters:***

- **Alireza Taheri** (2023) Impacts of Socially Assistive Robots on Improving the Quality of Life in Children with Autism, Editor(s): Bonnie Halpern-Felsher, *Encyclopedia of Child and Adolescent Health (First Edition)*, Academic Press, 2023, Pages 99-125, ISBN 9780128188736, <https://doi.org/10.1016/B978-0-12-818872-9.00125-4>
- **Alireza Taheri**, Ali Meghdari, Mino Alemi (2023) Socially assistive robots serving individuals with cancer and deafness/hearing loss, Editor(s): Bonnie Halpern-Felsher, *Encyclopedia of Child and Adolescent Health (First Edition)*, Academic Press, 2023, Pages 126-150, ISBN 9780128188736, Elsevier, 2023, <https://doi.org/10.1016/B978-0-12-818872-9.00131-X>
- **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).

#### ***Conference Papers:***

- Tandiseh, A., **Taheri, A.**, (2024). Virtual Reality Music-based Game as a Co-Tool to Diagnose Autism in Young Children. In 2024 12th International Conference on Robotics and Mechatronics (ICRoM). IEEE, Tehran, Iran, Dec. 2024.

- Tabatabaei, R., Hosseini, M., Mohajerzarrinkelk, A., Meghdari, A. F., **Taheri, A.**, (2024). Modeling of Gaze Behavior in Children Using Deep Neural Network and Robot Implementation. In 2024 12th International Conference on Robotics and Mechatronics (ICRoM). IEEE, Tehran, Iran, Dec. 2024.
- Nasirian, N., Hosseini, M., Amiri, O., Meghdari, A. F., **Taheri, A.**, (2024). Using VR in adaptive teaching the optimal use of water and energy to children. In 2024 12th International Conference on Robotics and Mechatronics (ICRoM). IEEE, Tehran, Iran, Dec. 2024.
- **Taheri, A.**, Khatiri, S., Seyyedzadeh, A., Ghorbandaei Pour, A., Siamy, A., & Meghdari, A. F. (2023, December). Investigating the Impact of Human-Robot Collaboration on Creativity and Team Efficiency: A Case Study on Brainstorming in Presence of Robots. In International Conference on Social Robotics (pp. 94-103). Singapore: Springer Nature Singapore.
- Amiri, O., Shahab, M., Mohebati, M. M., Miryazdi, S. A., Amiri, H., Meghdari, A., ... & **Taheri, A.** (2023, December). Virtual Reality Serious Game with the TABAN Robot Avatar for Educational Rehabilitation of Dyslexic Children. In International Conference on Social Robotics (pp. 161-170). Singapore: Springer Nature Singapore.
- Shahab, M., Mokhtari, M., Miryazdi, S. A., Ahmadi, S., Mohebati, M. M., Sohrabipour, M., ... & **Taheri, A.** (2023, December). A Tablet-Based Lexicon Application for Robot-Aided Educational Interaction of Children with Dyslexia. In International Conference on Social Robotics (pp. 344-354). Singapore: Springer Nature Singapore.
- Nazemi, H., Ebrahimzadeh, M. A., **Taheri, A.** (2023). The Effect of Feature Normalization on Motor Imagery Task Classification. In 2023, 5<sup>th</sup> Sharif Neuroscience Symposium 2023 (SNS2023), Tehran, Iran, 2023. **Extended Abstract.**
- Riazi Bakhshayesh, P., Ejtehad, M., **Taheri, A.**, Behzadipour, S. (2022). The Effects of Data Augmentation Methods on the Performance of Human Activity Recognition. In 2022, 8<sup>th</sup> Iranian Conference on Signal Processing and Intelligent Systems (ICSPIS), Mazandaran, Iran, 2022.
- Mazhari, A., Esfandiari, P., **Taheri, A.**, (2022). Teaching Iranian Sign Language via a Virtual Reality-Based Game. In 2022 10th International Conference on Robotics and Mechatronics (ICRoM). IEEE, Tehran, Iran, Nov. 2022.
- Nemati, M., **Taheri, A.**, Ghazizadeh, A., Banitalebi Dehkordi, M., Meghdari, A. (2022). Feature Selection Using EEG Signals: A Novel Hybrid Binary Particle Swarm Optimization. In 2022 10th International Conference on Robotics and Mechatronics (ICRoM). IEEE, Tehran, Iran, Nov. 2022.
- Daryakenari, F. H., Mollahosseini, M., **Taheri, A.**, Vossoughi, G. R. (2022). Classification of Lower Limb Electromyographical Signals Based on Autoencoder Deep Neural Networks Transfer Learning. In 2022 10th International Conference on Robotics and Mechatronics (ICRoM). IEEE, Tehran, Iran, Nov. 2022.
- Ghadami, A., Mohammadzadeh, M., Taghimohammadi, M., and **Taheri, A.**, (2022). Automated Driver Drowsiness Detection from Single-Channel EEG Signals Using Convolutional Neural Networks and Transfer Learning. In 25th IEEE Intelligent Transportation Systems Conference (ITSC 2022). Macau, China, Oct. 2022.
- Nemati, M., **Taheri, A.** (2022). EEG signal analysis for controlling a computer avatar with motor imagery pattern. In 2022, 4<sup>th</sup> Sharif Neuroscience Symposium 2022 (SNS2022), Tehran, Iran, 2022. **Extended Abstract.**



- Nazemi, H., **Taheri, A.**, Meghdari, A., Boroushaki, M, Ghazizadeh, A. (2021). Emotion Recognition Using EEG Signals: Accuracy Comparison Between Methods and Frequency Bands. In 2021 9<sup>th</sup> International Conference on Robotics and Mechatronics (ICRoM). IEEE, Tehran, Iran, Nov. 2021.
- Memari, M., Sakhaee, M.M., Nadian, M.H., **Taheri, A.**, Ghazizadeh, A. (2021). Design and Manufacture of a Guided Mechanical Arm by EEG Signals. In 2021 9<sup>th</sup> International Conference on Robotics and Mechatronics (ICRoM). IEEE, Tehran, Iran, Nov. 2021.
- Gholipour A., **Taheri A.**, Mohammadzade H. (2021) Automated Lip-Reading Robotic System Based on Convolutional Neural Network and Long Short-Term Memory. In: Li H. et al. (eds) Social Robotics. ICSR 2021. Lecture Notes in Computer Science, vol 13086. Springer, Cham. [https://doi.org/10.1007/978-3-030-90525-5\\_7](https://doi.org/10.1007/978-3-030-90525-5_7)
- Nemati A., **Taheri A.**, Zhao D., Meghdari A.F., **Ge S.S.** (2021) Acceptance of Robotic Transportation in Small Workshops: A China-Iran Cross-Cultural Study. In: Li H. et al. (eds) Social Robotics. ICSR 2021. Lecture Notes in Computer Science, vol 13086. Springer, Cham. [https://doi.org/10.1007/978-3-030-90525-5\\_71](https://doi.org/10.1007/978-3-030-90525-5_71)
- Etesami E., **Nemati A.**, **Meghdari A.F.**, **Ge S.S.**, **Taheri A.** (2021) Design and Fabrication of a Floating Social Robot: CeB the Social Blimp. In: Li H. et al. (eds) Social Robotics. ICSR 2021. Lecture Notes in Computer Science, vol 13086. Springer, Cham. [https://doi.org/10.1007/978-3-030-90525-5\\_58](https://doi.org/10.1007/978-3-030-90525-5_58)
- 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 8<sup>th</sup> 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 7<sup>th</sup> 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 7<sup>th</sup> 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*”, 10<sup>th</sup> International Conference on Social Robotics (ICSR2018), Qingdao, China, November 28<sup>th</sup>-30<sup>th</sup> 2018.
- Hosseini Seyed Ramezan, **Taheri Alireza**, **Meghdari Ali**, Alemi Minoo, 2018, ““*Let There be Intelligence!*”- *A Novel Cognitive Architecture for Teaching Assistant Social Robots*”, 10<sup>th</sup> International Conference on Social Robotics (ICSR2018), Qingdao, China, November 28<sup>th</sup>-30<sup>th</sup> 2018.

- Tavakkolelahy Maryam, Habibnejad Korayem Amin, Shariati Azadeh, Meghdari Ali, Alemi Minoo, Ahmadi Ehsan, **Taheri Alireza**, Heidari Rozita, 2017, “*XyloTism*”: A Tablet-Based Application to Teach Music to Children with Autism”, 9<sup>th</sup> International Conference on Social Robotics (ICSR2017), Tsukuba, Japan, November 22<sup>nd</sup>-24<sup>th</sup> 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*”, 9<sup>th</sup> International Conference on Social Robotics (ICSR2017), Tsukuba, Japan, November 22<sup>nd</sup>-24<sup>th</sup> 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 5<sup>th</sup> RSI/IEEE International Conference on Robotics and Mechatronics, ICRoM 2017, Amirkabir U., Tehran, Iran, October 25<sup>th</sup>-27<sup>th</sup> 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*”, 8<sup>th</sup> International Conference on Water and Environment in the New Millennium (WENM2016), Tehran, Iran, November 1<sup>st</sup>-3<sup>rd</sup> 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?*”, 8<sup>th</sup> International Conference on Social Robotics (ICSR2016), Kansas City, USA, November 1<sup>st</sup>-3<sup>rd</sup> 2016.
- Meghdari Ali, Alemi Minoo, Ghorbandaei Pour Ali, **Taheri Alireza**, 2016, “*Spontaneous Human-Robot Emotional Interaction through Facial Expressions*”, 8<sup>th</sup> International Conference on Social Robotics (ICSR2016), Kansas City, USA, November 1<sup>st</sup>-3<sup>rd</sup> 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 24<sup>th</sup> International Conference on Mechanical Engineering, Yazd, Iran, May 2016, (*In Persian*)
- **Taheri Alireza**, Alemi Minoo, Meghdari Ali, Pouretamad Hamid Reza, Mahboob Basiri Nasim, Poorgoldooz Pegah, 2015, “*Impact of Humanoid Social Robots on Treatment of a Pair of Iranian Autistic Twins*”, 7<sup>th</sup> International Conference on Social Robotics (ICSR2015), Paris, France, October 26<sup>th</sup>-30<sup>th</sup> 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*”, 7<sup>th</sup> International Conference on Social Robotics (ICSR2015), Paris, France, October 26<sup>th</sup>-30<sup>th</sup> 2015.
- **Taheri A.R.**, Alemi M., Meghdari A., Pouretamad H.R., Holderread S.L., 2014, “*Clinical Application of Humanoid Robots in Playing Imitation Games for Autistic Children in Iran*”, 14<sup>th</sup> Int. Educational Technology Conference (IECT), Chicago, IL, USA, Procedia - Social and Behavioral Sciences, Sept. 3-5, 2014.
- **Taheri Alireza**, Alemi Minoo, Meghdari Ali, Pouretamad HamidReza, Mahboob Basiri Nasim, 2014, “*Social Robots as Assistants for Autism Therapy: Research in Progress*”, The 2<sup>nd</sup> RSI International Conference on Robotics and Mechatronics, ICRoM 2014, Khaje Nasir U., Tehran, Iran, October 2014.



- Meghdari Ali, Alemi Minoo, Pouretamad 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*”, 3<sup>rd</sup> Basic Clinical and Neuroscience Congress 2014, Tehran, Iran, Oct. 2014, **Extended Abstract**.
- Alemi Minoo, Meghdari Ali, Pouretamad 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*”, 3<sup>rd</sup> Basic Clinical and Neuroscience Congress 2014, Tehran, Iran, Oct. 2014, **Extended Abstract**.
- Meghdari Ali, Alemi Minoo, Pouretamad HamidReza, **Taheri Alireza**, “*Clinical Application of a Humanoid Robot in Playing Imitation Games for Autistic Children in Iran*”, 2<sup>nd</sup> 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*”, 6<sup>th</sup> 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.

## **PATENTS**

- Alemi Minoo, 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, Monjazebe 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>* )

## **HONORS AND AWARDS**

- Selected as one of the high-qualified AI courses by the Artificial Intelligence and Robotics Council to develop a graduate course entitled “Social and Cognitive Robotics” for Iranian students, Iran Vice-Presidency for Science, Technology, and Knowledge Based Economy (ISTI), Tehran, Iran, Sep. 2024.
- Winner (ranked 1<sup>st</sup>) of the ICSR Robot Design Competition for our developed package “T-Dyslexia: Taban2 Social Robot Package Assisting Dyslexia”, ICSR2023, Doha, Qatar, Dec. 2023.
- Nominated as the Best Student Paper Award for our paper “Virtual Reality Serious Game with the TABAN Robot Avatar for Educational Rehabilitation of Dyslexic Children”, ICSR2023, Doha, Qatar, Dec. 2023.

- Nominated as the Best Poster Award for our paper “A Tablet-Based Lexicon Application for Robot-Aided Educational Interaction of Children with Dyslexia”, ICSR2023, Doha, Qatar, Dec. 2023.
- Got the **Excellence in Teaching Award** by the President of the University based on the education performance among the faculty members of the Mechanical Engineering Department, Sharif University of Technology, Iran, 2023.
- Top ten percent scientific solutions in the 3<sup>rd</sup> KANS Scientific Competition, “Social Robots and Virtual Reality systems to improve the quality of life for children with special needs” in the field of “Health & Med-Tech”, Mustafa Science and Technology Foundation, Iran, 2022-2023.
- Got the **Young Faculty Appreciation Award** of Sharif University of Technology based on the education performance by the President of the University, Sharif University of Technology, Iran, 2022.
- Shortlisted as one of the 2021 Oscar’s of Education, Reimagine Education Awards and Conference for the “Learning from demonstration and the RASA humanoid robot architecture for adaptive teaching: A case study on Iranian Sign Language”, USA, Nov. 2021.
- Being selected as the Finalist in the Robot Design Competition for “TABAN 2: A Social Robot Designed for Interaction with Children with Dyslexia and a Complementary Virtual Reality Game”, ICSR2021, Singapore, Nov. 2021.
- Being selected as the Finalist in the Robot Design Competition for “Apo: A social robot for teaching water and energy consumption scheme to children”, ICSR2021, Singapore, Nov. 2021.
- Getting the Best Award for designing a VR game in the area of Treatment and Co-therapy for “Autism Park II: A Virtual Reality Game for Education and Cognitive Rehabilitation of Children with Autism”, In the 1<sup>st</sup> Festival of the AR and VR Games, Iran Computer Games Foundation, Tehran, Iran, Nov. 2021.
- Getting the 3<sup>rd</sup> 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”, 4<sup>th</sup> Serious Games Prize 2020, Tehran, Iran, Nov. 2020.
- Winner of the Prize for designing “The Virtual Room for Cognitive Rehabilitation of Children with Autism”, 3<sup>rd</sup> 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 **5<sup>th</sup>** 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 **5<sup>th</sup>** among 120 undergraduate students of Mechanical Engineering Department, 2009.
- Ranked **175<sup>th</sup>** among about 300000 participants in the National Entrance Exam for B.Sc. degree in Science and Engineering, 2005.
- **Gold Medal** in the **16<sup>th</sup> 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.

### **TEACHING EXPERIENCES**

- **Social and Cognitive Robotics (Graduate)**, Mechanical Engineering Department, Sharif University of Technology, **Spring 2022-Present**. (<http://mech.sharif.edu>)
- **Advanced Engineering Mathematics (Graduate)**, Mechanical Engineering Department, Sharif University of Technology, **2019-Present**. (<http://mech.sharif.edu>)
- **Robotics Lab. (Undergraduate and 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>)

### **COLLABORATION WITH JOURNALS**

- **Handling Editor** of the Research Topic entitled “**Human-Robot Interaction for Children with Special Needs**”, *Frontiers in Robotics and AI*, **2021-2022**.

<https://www.frontiersin.org/research-topics/21770/human-robot-interaction-for-children-with-special-needs>

### **COLLABORATION WITH CONFERENCES**

• **Executive Chair**, 30<sup>th</sup> National and 8<sup>th</sup> **International Iranian Conference on Biomedical Engineering (ICBME 2023)**, Mechanical Engineering Department, Sharif University of Technology, Tehran, Iran, Nov 30<sup>th</sup> and December 1<sup>st</sup>, 2023 ( <https://icbme.ir/> ).

## **RESEARCH AND INDUSTRIAL EXPERIENCES**

• **Iran Vice-Presidency for Science, Technology, and Knowledge Based Economy (ISTI)**  
Principal Investigator (PI), “*Design, manufacture, and develop a package of modern educational technologies (including a social robot, virtual reality system, and Android games) for education, entertainment, and cognitive rehabilitation of the elderly*”, 2024-2025.

• **Artificial Intelligence and Robotics Council**

Principal Investigator (PI), *Developing a Graduate Course entitled “Social and Cognitive Robotics” for Iranian Students*, 2024.

• **Iran Vice-Presidency for Science, Technology, and Knowledge Based Economy (ISTI)**

Principal Investigator (PI), “*Design, manufacture, and development of a technological package of the Taban social robot and virtual reality games for education and entertainment of children in Iran*”, 2024-2025.

• **Iran National Science Foundation, INSF (Grant No. 4031030)**

Principal Investigator (PI), “*Development of an Iranian sign language interactive system based on large language models*”, 2024-2026. (Co-PI: Prof. Ali Meghdari, Consultant: Dr. Mahdieh Soleymani Baghshah)

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

Principal Investigator (PI), “*Design, manufacture, and use a technological package of an animal-like social robot and virtual reality games in adaptive education and cognitive rehabilitation of children with dyslexia*”, 2024-2026.

• **Teromel Company, Iran.**

Principal Investigator (PI), “*Design and Fabrication of a Robot for Helping Tennis Players*”, 2021.

• **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. Minoo 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 Sciences 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 Sciences 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 Sciences 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)

## **OTHER WORKING EXPERIENCES**

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

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

( [www.pishrobot.com](http://www.pishrobot.com) )

## **STUDENTS**

### ***PhD Students:***

1. Morteza Memari
2. Kimia Hashemi, **Thesis title:** “*Computational Investigation of Action Prediction in Autism Spectrum Disorders*”
3. Amirali Rasaeifard (Co-advised with Prof. A. Meghdari), **Thesis title:** “*Modeling, Simulation, and Training of an Intelligent Robotic Hand for Grasping Objects in Highly Uncertain Environment*”
4. Seyed MohammadJafar Zolanvary (Co-advised with Prof. A. Meghdari), **Thesis title:** “*Developing a cognitive architecture based on active inference to learn social etiquette on a social robot*”
5. 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*”
6. 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*”, 2022.
7. Mojtaba Shahab (Co-advised with Prof. A. Meghdari and Dr. Alemi, Consultant: Prof. H. Pouretamad), **Thesis title:** “*Design, Modeling, and Application of a Social Robot for Cognitive Rehabilitation of Children with Dyslexia in Iran*”, 2024

### ***MSc Students:***

1. Seyed Ali Mirghassemi, **Thesis title:** “*Controlling an intelligent robot for objects navigation in an unseen environment using deep learning methods and Large Language Models*”
2. Sahahr Aghakhani (Co-advised with Prof. A. Meghdari), **Thesis title:** “*Development of an interactive Iranian Sign Language interface using deep learning methods and Large Language Models*”

3. MohammadHossein Jamshidi, (Co-advised with Dr. M. Soleymani Baghshah), **Thesis title:** *“Redesign and Manufacture of the Taban Robot and Investigation of the Robot’s Acceptance in Child-Robot Interactions”*
4. MohammadReza Motaharipour (Co-advised with Prof. A. Meghdari), **Thesis title:** *“Identifying hazardous driving patterns using CAN-bus signals through deep learning approach”*
5. Mahdi Haghghatjoo, **Thesis title:** *“Redesign and Reconstruction of an intelligent cane for blind people using continual learning algorithm”*
6. Armin Tandiseh, **Thesis title:** *“Modeling of children’s behaviors in interaction with a virtual social robot during a music education program using deep neural networks”*
7. Rasoul Zahedifar (Co-advised with Dr. M. Soleymani Baghshah), **Thesis title:** *“Socially-Aware Mobile Robot Path Planning in Crowded Spaces using Deep Learning-based Human Trajectory Prediction Model”*
8. MohammadHossein Fazli (Co-advised with Prof. A. Meghdari), **Thesis title:** *“Design and Implementation of an Adaptive Architecture for Teaching the Reading Skill to Children with Dyslexia using the Taban Robot”*
9. Mohammad Shahrokhi (Co-advised with Prof. A. Meghdari), **Thesis title:** *“Design, manufacture and intelligentization of anthropomorphic robotic hand for the Rasa robot”*
10. Morteza Memari, **Thesis title:** *“Adaptive teaching of the Iranian sign language based on continual learning algorithms using RASA robot”*, **2023.**
11. Seyed Mohsen Dehghani, **Thesis title:** *“Locomotion Control of Bipedal Robot using Reinforcement Learning based on Model Predictive Control”*, **2024.**
12. Ali Ghadami (Co-advised with Prof. A. Meghdari), **Thesis title:** *“Developing a Vision-Based Continuous Persian Sign Language Translation System”*, **2023.**
13. Seyed Ramtin Tabatabaei (Co-advised with Prof. A. Meghdari), **Thesis title:** *“Proposing an empirical motion-time pattern for human gaze behavior in different social situations using Deep Neural Networks”*, **2023.**
14. MohammadHossein Zahedi Bidgoli (Co-advised with Dr. H. Nejat), **Thesis title:** *“Development of a control system with capability of generating magnetic field to steer a flexible tool”*, **2024.**
15. 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”*, **2022.**
16. Amirreza AsemanRafat (Co-advised with Prof. A. Meghdari), **Thesis title:** *“Reproducing of social gestures in the RASA humanoid robot via dynamic movement primitives”*, **2023.**
17. 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”*, **2023.**
18. Hossein Ranjbar, **Thesis title:** *“Designing an automatic system for continuous meaningful gesture recognition by deep learning and implementing it on the RASA social robot”*, **2023.**
19. Mohammad Nemati, **Thesis title:** *“Design and test of an EEG-based video game combined with an eye tracker”*, **2023.**
20. MohammadMoein 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”*, **2023.**
21. 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”*, **2022.**
22. MohammadHossein 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”*, **2022.**

23. Mostafa Nowrouzi (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*”, **2021.**
24. 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*”, **2022.**
25. 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*”, **2022.**
26. Adel Alizadeh Kolagar (Co-advised with Prof. A. Meghdari), **Thesis title:** “*Learning Interactive Skills of Nao Robot through Imitation Learning from Observation*”, **2022.**
27. Mobin Habibpour (Co-advised with Prof. A. Meghdari and Dr. A. Nemati), **Thesis title:** “*Semantic Visual SLAM System in Dynamic Environments*”, **2022.**
28. Salar Basiri (Co-advised with Prof. A. Meghdari, Consultant: Dr. M. Alemi), **Thesis title:** “*Implementing Adaptive Iranian Sign Language Teaching on RASA Robot*”, **2020.**
29. Amirreza RazmjooFard (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.**

## **INTERESTS AND HOBBIES**

- Sport: Soccer and **Chess**

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

- Gold medal in the **16<sup>th</sup> Chess Team Competition of Iranian University Students**, Esfahan, Fall 2007.
- Silver medal in "3<sup>rd</sup> 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.