

Ali Mahmoudi

Faculty of New Sciences and Technologies,
University of Tehran, North Kargar Street,
Tehran, Iran

14395 -1561

Phone: +98-936-0905419

Skype ID: ali.mahmoudi91

E-mails: alimahmoudi1991@gmail.com

ali.mahmoudii@ut.ac.ir

Online Portfolio: www.alimahmoudi.net

Education

- [University of Tehran](#)
M.Sc. in Mechatronics Engineering; 2016-2019 (expected); GPA: 17.08/20.
Thesis: Improving visual Artificial Curiosity through knowledge self-organizing systems;
Supervisor: [Dr. Askari Moghadam](#)
Advisor: [Prof. Kurosh Madani](#) (University Paris-Est Créteil)
- [Amirkabir University of Technology \(Tehran Polytechnic\)](#)
B.Sc. in Mechanical Engineering; 2009-2014.
Thesis: Modeling and analysis of a passive dynamic walker with mass distribution in legs;
Supervisor: [Prof. Bahrami](#)
- National Organization for Development of Exceptional Talents (Alborz Province Branch)
High School Diploma in Mathematics and Physics Discipline; 2008.

Publications

- H. Misaghi, A. Mahmoudi, and M. T. Masouleh, "[Dynamic analysis of a planar parallel robot with the purpose of obtaining optimal inertial parameters for energy consumption](#)," in *Knowledge-Based Engineering and Innovation (KB EI), 2017 IEEE 4th International Conference on*, pp. 0931-0936, IEEE, 2017.
- H. Misaghi, R.A. Moghadam, A. Mahmoudi, and A. Salemi, "[Image Saliency Detection By Residual And Inception-like CNNs](#)," in *Robotics and Mechatronics (ICROM), 2018 6th International Conference on*, IEEE, 2018.
- A. Mahmoudi, H. Misaghi, R.A. Moghadam, and I. Rafati, "Passive Dynamic Walking with Neuroevolutionary Controlled Torso," *Electrical Engineering (ICEE), 2019 Iranian Conference on*.
- H. Misaghi, R.A. Moghadam, A. Mahmoudi, and K. Madani, "[Saliency Detection with Fully Convolutional Neural Network](#)," arXiv preprint arXiv: 1906.09806. 2019 Jun 24.

Research Interests

- Artificial Intelligence
- Nonlinear Dynamics and Chaos
- Robotics
- Legged Locomotion
- Cognitive Robotics
- Complex Systems

Teaching Experiences

- Teaching assistant; Dynamics II; Department of Mechanical Engineering at Amirkabir University of Technology; Supervisor: [Dr. M.Danesh Pazhooh](#); Fall 2014.
- Teaching assistant; Dynamics II; Department of Mechanical Engineering at Amirkabir University of Technology; Supervisor: [Dr. M.Danesh Pazhooh](#); Fall 2013.
- Teaching assistant; Statics; Department of Mechanical Engineering at Amirkabir University of Technology; Supervisor: [Mrs. Jalilsani](#); Fall 2013.
- Teaching assistant; Mechanical Design II; Department of Mechanical Engineering at Amirkabir University of Technology; Supervisor: [Dr. Alizadeh](#); Spring 2013.

Research Experiences

- Part-time researcher
 - Human and Robot Interaction Laboratory (Taarlab); University of Tehran; 2017.

Languages

- Persian (Native)
- English (Full professional proficiency
 - GRE Paper-based score (expired in 2018):
 - Verbal Reasoning: 150 - Quantitative Reasoning: 170 - Analytical Writing: 3.0
 - TOEFL iBT score: 112 out of 120
 - Reading 30 – Listening 29 – Speaking 26 – Writing 27
- Spanish (Elementary)

Technical Proficiencies

- Software: MATLAB, MSC ADAMS, ANSYS, SolidWorks, Working Model, AutoCAD, FluidSIM, MITCalc, EES, Maple, NetLogo, MIPAR, Neural Designer
- Micro-controllers: PIC, Arduino
- Programming: Python, C\C++
- General purpose: Microsoft Office (Word, Excel, Power Point), LATEX

Selected Courses

- Advanced Dynamics
- Artificial Intelligence
- Modern Control Systems
- Artificial Neural Networks
- Machine Vision
- Advanced Robotics

Working Experiences

- Production Supervisor:
 - [Maharan](#) Engineering Corp. (Biggest manufacturer of railroad and subway signaling and telecommunication systems in Middle East); Spring and Summer 2015.
- Internship:
 - Worked as assistant in vehicle dynamics office at New Product Design and Development (NPD) division of [Iran Khodro](#) Company; Summer 2012.
 - Toos Textile Industries; Summer 2013.

Extracurricular Activities

- Ecotourism, hiking, and swimming.
- Amateur E-sport player.
- Voluntary member of [Red Crescent Society](#).

List of References

- Reza Askari Moghadam; Assistant Professor; Faculty of New Sciences and Technologies (FNST); University of Tehran.
Email: r.askari@ut.ac.ir
Webpage: <http://fnst.ut.ac.ir/en/~r.askari>
- Mehdi Tale Masouleh; Assistant Professor; School of Electrical and Computer Engineering (ECE); University of Tehran.
Email: m.t.masouleh@ut.ac.ir
Webpage: <http://ece.ut.ac.ir/en/~m.t.masouleh>
- Mitra Daneshpazhooh; Assistant Professor; Department of Mechanical Engineering; Amirkabir University of Technology (AUT).
Email: daneshm@aut.ac.ir
Webpage:
<http://mec.aut.ac.ir/autcms/people/verticalPagesAjax/professorHomePage.htm?url=daneshpazhooh&depurl=mechanical-engineering&lang=en&cid=42839>