



Saeid Samadi

Ph.D. candidate in Robotics
CNRS-UM, LIRMM

- March 29, 1995
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- Iranian

Social Network

- LinkedIn
- Github Project Page

Languages

- Persian ● ● ● ● ●
- Azeri ● ● ● ● ●
- Turkish ● ● ● ● ●
- English ● ● ● ● ●
- Arabic ● ● ● ● ●
- German ● ● ● ● ●
- French ● ● ● ● ●

Research interests

- Humanoid Robots
- Motion and Pattern Generation
- Control(linear and non-linear)
- Automated Vehicles
- Artificial Intelligence
- Mechanical Design

Education

- currently **Doctor of Philosophy** University of Montpellier
with thesis title of "*Exploration of contact modes for motion generation and control of multi-body systems*" under supervision of Prof. Abderrahmane Kheddar; Co-director, Dr. Stéphane Caron
- 2016 – 2018 **Master of Science** University of Tehran
with thesis title of "*Designing an Online Walking Algorithm of Humanoid Robot on Rough Surfaces with Different Heights*" under supervision of Prof. Aghil Yousefi-Koma and Mohammadreza Zakerzadeh
- 2012 – 2016 **Undergraduate study** University of Tabriz
with project topic of "*Free-convection analysis of an elliptic cylinder*" under supervision of Prof. Esmaeil Razavi

Working Experience

- currently **Researcher Ph.D. student** LIRMM
Member of *Interactive Digital Human group (IDH)* in CNRS-University of Montpellier; Laboratory of Informatics, Robotics and Microelectronics of Montpellier (LIRMM)
- 2017 – 2018 **Teaching assistant** University of Tehran
Smart Structure and *Fuzzy Control* courses for graduate students
- 2016 – 2018 **Research assistant** CAST
Dynamic and Control member of *Center of Advanced Systems and Technologies (CAST)*, University of Tehran

Selected projects

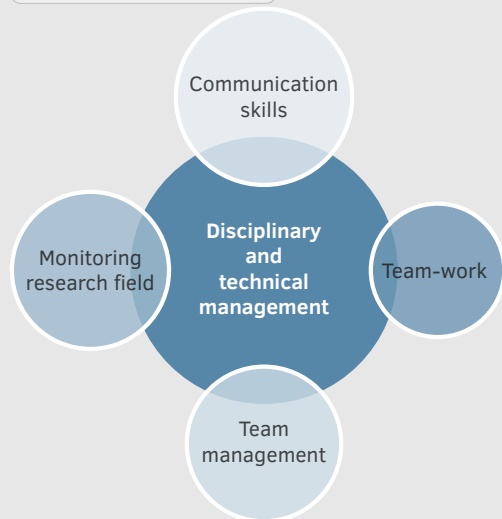
- 2019 **Motion generation of Humanoid robot** LIRMM
I developed a novel methodology for humanoid robots to keep the balance in multi-contact and sliding scenarios. Videos of my experiments on *HRP-4* humanoid robot is available in [YouTube](#).
Used Softwares: C++, Python, Pymanoid, Choreonoid
- 2018 **Walking pattern generation** University of Tehran
I used Model Predictive Control (MPC) for generating a walking pattern on uneven terrains for humanoid robots; including some experiments on *SURENA-MINI*.
Used Softwares: Matlab, C
- 2017 – 2018 **SURENA IV humanoid robot** CAST
SURENA IV is the last generation of *SURENA* humanoid robots which will be unveiled in December 2019. I was member of Dynamic and Control team of this project and a volunteer member of design and fabrication team for three months. I designed the upper body (chest) and neck mechanism of *SURENA IV*.
Used Softwares: Matlab, Python, SolidWorks
- 2017 **Artificial intelligence** University of Tehran
I used *Extended Classifier Systems (XCS)* to learn and play "Dots and Boxes" game with human or pre-learned systems
Used Softwares: Matlab
- 2016 – 2017 **Design and Fabrication** CAST
I designed and fabricated two medium-sized and flapping-wing bird-robots in 7 months. They were radio control and auto-pilot versions which ended with successful experiments.
Used Soft/hardwares: SolidWorks, Paparazzi, Matlab, CNC-machine

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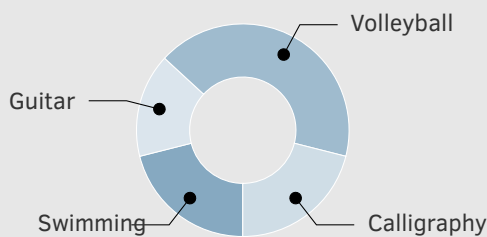
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Other

Non-academic skills



Hobbies



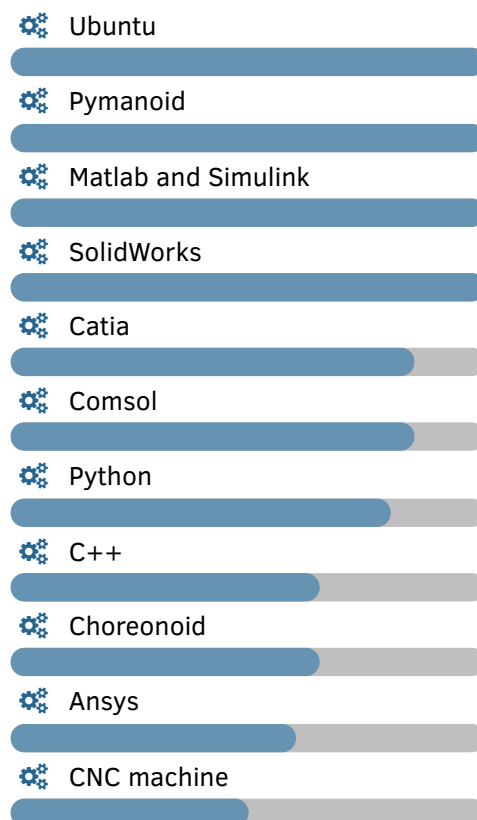
Publications

- 2020 **Balance of Humanoid robot in Multi-contact and Sliding Scenarios**
Saeid Samadi, Stéphane Caron, Arnaud Tanguy, and Abderrahmane Kheddar
ICRA2020
- 2017 **Control an SMA-actuated rotary actuator by fractional order PID controller**
Saeid Samadi, Aghil Yousefi-Koma, Mohammadreza Zakerzadeh, Farshad Nozad-Heravi
ICROM 2017
- 2016 **FOPID control of a solar furnace (in persian)**
Saeid Samadi, Farshad Nozad-Heravi and Mohammadreza Haeri-Yazdi
ISME 2016

Honors and Awards

- 2018 **Ranked first among all applicants for Ph.D. position in CNRS-UM**
- 2016 **M.Sc. Program Fellowship, Awarded by Ministry of Science, Research and Technology, Iran**
- 2016 **Ranked among top 10 percent Undergraduate students and got Fellowship to pursue M.Sc. Program at University of Tabriz**
- 2012 **Ranked as top 0.7 percent among 260,055 participants in Iran's university entrance exam and B.Sc. Program Fellowship**
- 2011 **Honored and Ranked as the 1st student in high school for whole three years of education**
- 2007 **Educational Acceleration of the second grade of Middle School**

Skills



March 1, 2020

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