

MR. HAMID RAZMJOOEI



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PROFESSIONAL SUMMARY

Mr. Hamid Razmjooei holds a Master of Science in Electrical Engineering - Control Engineering from Shiraz University of Technology, Iran. He was a junior research fellow at Shiraz University of Technology, Iran from 2016 to 2021 and an international research fellow at the University of Bologna, Italy from March 2021 to December 2021. He has been a lecturer at Shiraz Technical & Engineering College, Iran since January 2022.

Hamid is an experienced researcher on control theories, mathematical modeling, and system identification. His vision is to advance a fundamental understanding of multi-objective control in uncertain dynamical systems. Towards this vision, he develops nonlinear control theories, optimization methods, and observer theory.

He addresses applications ranging from mechatronic and robotic systems. He has published a number of papers in top-ranked journals and has excellent proficiency in the English language as well as good communication skills, both oral and written. Hamid has already successfully passed the TOEFL test with a score above 100 out of 120.

PROFESSIONAL EDUCATION

1. Research Fellow in Robotic technologies, March 2021 – December 2021

Alma Mater Studiorum - University of Bologna, Bologna, Italy

Project I: Robotic technologies for the manipulation of complex deformable linear objects

Project II: Design and experimental validation of finite-time extended state observer on electro-hydraulic systems

2. Junior Research Fellow in Finite-Time Control Methodologies, September 2016 – February 2021

Shiraz University of Technology, Shiraz, Iran

Project: Finite-time control of a class of uncertain nonlinear systems based on extended state observer

3. Master of Science (M.Sc.) of Electrical Engineering - Control, September 2013 – July 2015

Shiraz University of Technology, Shiraz, Iran

Thesis: Development of optimization-based robust nonlinear control

GPA: 19.09 out of 20 (3.88 out of 4)

4. Bachelor of Science of Electrical Engineering, September 2008 – August 2013

- **Discontinuous Bachelor of Science of Control Technology Engineering and Instrumentation**

Tehran Technical College, Tehran, Iran

Project: Control of a gas-station using PLC and monitoring it with Wincc

GPA: 17.02 out of 20 (3.60 out of 4)

- **Continuous Associate of Electrotechnics-Industrial Electricity**

Shiraz Technical & Engineering College, Shiraz, Iran.

GPA: 16.15 out of 20 (3.43 out of 4)

LIST OF ACCEPTED PUBLICATIONS

<https://scholar.google.com/citations?user=EvDm9Z0AAAAJ&hl=en&oi=ao>

- [1] **Razmjooei, H.** and Safarinejadian, B., **2015**. A novel algorithm for hierarchical state and parameter estimation in slowly time varying systems. *Journal of Advanced and Applied Sciences*, 3(5), p.189.
- [2] **Razmjooei, H.**, Shafiei, M.H., Abdi, E. and Yang, C., **2020**. A novel robust finite-time tracking control of uncertain robotic manipulators with disturbances. *Journal of Vibration and Control*.
- [3] **Razmjooei, H.**, Shafiei, M.H. and Abdi, E., **2020**. A Novel Continuous Finite-Time Extended State Observer Design for a Class of Uncertain Nonlinear Systems. *IEEE Access*.
- [4] **Razmjooei, H.**, Shafiei, M.H., Palli, G. and Ibeas, A., **2020**. Chattering-free robust finite-time output feedback control scheme for a class of uncertain non-linear systems. *IET Control Theory & Applications*, 14(19), pp.3168-3178.
- [5] **Razmjooei, H.** and Shafiei, M.H., **2021**. A new approach to design a finite-time extended state observer: Uncertain robotic manipulators application. *International Journal of Robust and Nonlinear Control*, 31(4), pp.1288-1302.
- [6] **Razmjooei, H.**, Shafiei, M.H., Palli, G. and Arefi, M.M., **2022**. Non-linear finite-time tracking control of uncertain robotic manipulators using time-varying disturbance observer-based sliding mode method. *Journal of Intelligent & Robotic Systems*, 104(2), pp.1-13.
- [7] **Razmjooei, H.**, Palli, G. and Abdi, E., **2022**. Continuous finite-time extended state observer design for electro-hydraulic systems. *Journal of the Franklin Institute*.
- [8] **Razmjooei, H.**, Palli, G. and Nazari, M., **2022**. Disturbance observer-based nonlinear feedback control for position tracking of electro-hydraulic systems in a finite time. *European Journal of Control*, p.100659.
- [9] **Razmjooei, H.**, Palli, G. Abdi, E., Strano, S., and Terzo, M., **2022**. Finite-time continuous extended state observers: design and experimental validation on electro-hydraulic systems. *Mechatronics*.
- [10] **Razmjooei, H.**, Palli, G. Janabi-Sharifi, F., and Alirezaee, S., **2022**. Adaptive fast-finite-time extended state observer design for uncertain electro-hydraulic systems. *European Journal of Control*.
- [11] **Razmjooei, H.**, Palli, G. Abdi, E., Strano, S., and Terzo, M., **2022**. Design and experimental validation of a robust adaptive fast observer on electro-hydraulic systems. *Control Engineering Practice*.

SOFTWARE SKILLS

<i>Matlab</i>	●●●●●●●●○○	<i>Microsoft Office</i>	●●●●●●○○○○
<i>SimaticStep⁷</i>	●●●●●●●●○○	<i>Keil uVision</i>	●●●○○○○○○○○
<i>CodeVision^{AVR}</i>	●●●●●●●○○○	<i>LabVIEW</i>	●●○○○○○○○○○○
<i>Pspice</i>	●●●●●●○○○○	<i>AltiumDesigner</i>	●○○○○○○○○○○

PROGRAMMING LANGUAGES

<i>LAD & STL</i>	●●●●●●●○○○	<i>C++</i>	●●●○○○○○○○○
<i>C</i>	●●●●●○○○○○	<i>Python</i>	●○○○○○○○○○○

LANGUAGE SKILLS

<i>Persian (Mother tongue)</i>	●●●●●●●●●●	<i>English "TOEFL-ibt-at home" (Score +100)</i>	●●●●●●●●○○
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