



Mohammad Mahdi Azimi

Ph.D. in Control Engineering

I got my Ph.D. degree from Shahid Beheshti University, Tehran, Iran. My Dissertation was about Robust control of Large Scale Networked Control Systems. I'm expert of embedded control system and controller design based on microcontrollers; Networked Control Systems, Robust control, Adaptive control with application in Robotic and Mechatronic.



Personal Info

Birth Date: July, 5, 1987

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Skills

- Adaptive and Robust control design for Nonlinear and Linear Systems.
- Robust control design for Networked control systems.
- Control system Implementation as HIL
- Programming in C/C++
- Programming in Python
- Matlab and Simulink
- AVR microcontrollers and Arduino Boards
- ARM Microcontrollers: LPC1768 and STM32



English Skills

Based on MSRT Exam (In Iran)

- Reading 70/100
- Writing 63/100
- Listening 50/100



Educational History

- 1399 Ph.D. in Control Engineering GPA 18.06**
Shahid Beheshti University, Tehran, Iran
Robust Control of Large Scale Networked Control Systems
- 1392 M.Sc. Control Engineering**
University of Isfahan, Isfahan, Iran
Nonlinear Control on Underactuated Robotic Systems
GPA: 18.63
- 1398 B.Sc. Electrical Engineering**
Tafresh University, Tafresh, Iran
Design and Construction of a two degree-of-freedom Solar Tracker
GPA: 15.91



Work Experiences

- 2010 Design and Construction a Solar Tracker (Patented in Iran)**
With two-Degree-of-Freedom based on AVR Controller With Adaptive and Hill Climbing Algorithms
- 2014-2017 Lecturer in university in Iran**
Payam Noor University, University of Applied Science and Technology (UAST)
Teacher Assistant
In Shahid Beheshti University
- 2017 Vacuum Forming machine control Design**
Based on the PLC
- 2019 Design and Implementation HIL Control for a Quadrotor**
- 2020 Design and Implementation a Networked Control System Lab**
Based on the TCP/IP protocol for dynamic systems
Based on Arduino and STM32 microcontrollers.



Selected Papers

- **M.M.Azimi**, H. R. Koofigar. "Adaptive fuzzy backstepping controller design for uncertain underactuated robotic systems." Nonlinear Dynamics (2015) (Q1)
- **M.M. Azimi**, H.R. Koofigar, "Model predictive control for a two wheeled self-balancing robot," in Robotics and Mechatronics (ICRoM), 2013 First RSI/ISM International Conference on.
- **M.M. Azimi**, Ali A Afzalian, Reza Ghaderi, "Robust decentralised state feedback control design for large-scale networked control system", International Journal of Systems Science, 2018. (Q2)
- **M.M. Azimi**, Ali A Afzalian, Reza Ghaderi, "Decentralized stabilization of a class of large scale networked control systems based on modified event-triggered scheme", International Journal of Dynamics and Control ,2021 (Q2)
- **M.M. Azimi**, Ali A Afzalian, Reza Ghaderi, "Decentralized Output Feedback Stabilization Based on Modified Event-Trigger Scheme for Load Frequency Control of an Interconnected Microgrid",2021. DOI : 10.1007/s40998-021-00438-5