

In 2005, I obtained an MEng degree in Electrical Engineering from the Tarbiat Modares University (TMU), Iran. In 2011, I completed a PhD in Control and Dynamical Systems at the TMU. My thesis was on the "Robust Controller Design for Delayed Large Scale Systems Using Convex Optimization" and was under the supervision of Professor [V. J. Majd](#).

After a short time as an Assistant professor at the Shahed University, I joined the Department of Control Engineering at the TMU in March 2012, where I am now an Assistant Professor in Control Engineering.

Teaching

Convex Optimization and **Linear Matrix Inequality in Control.**

Biosystem Modeling.

An Introduction to Systems biology.

Industrial Process Control.

Modern Control theory.

Large Scale System Theory and Control.

System Identification

Research Interests

Systems and Synthetic Biology.

Modern Control Theory, Robust Stability Analysis and Design.

Nonlinear Dynamical Systems, Lyapunov stability.

Convex optimization (Linear and Semidefinite Programming, LMIs). Sum of Squares programming.

Networked systems: Multi-agent systems, consensus, flocking, alignment. Synchronization of oscillator networks. Internet congestion Control. Population dynamic systems. Biochemical Reaction Networks.

Instrumentation, Industrial Process Control and Automation.

Large Scale Systems: Decentralized Control, Centralized control, Supervisory Control.

Time Delay Systems.

Fixed-order Controller Design.

System Identification Using Convex Optimization.

Control of Civil Structures.

Microgrid Stabilization and Control.

Ph.D. Student:

1. Pouya Badri

MSc Students:

1. Ali Azarbahram

2. Amir Amini

3. Farzad Soleimani

4. Ahmad Irani

5. Omid Nikueezadeh

6. Mehrdad Mohammadamini

7. Mohsen Zaree