

## MSc Student · Control Engineering

Schoo	l of Electrica	l and Coi	mputer l	Engineering,	University	College of	f Engineerin	g, University (	of Tehran,	North Karga	ar st.
					Tehi	an, Iran.					

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University of MSc Control Advisors: De Thesis: Met	Tehran Tehran - Ira L ENGINEERING 2020 - prese  Dr. Ahmad Kalhor, Dr. Babak N Araabi ta System Identification  eini International University  AL ENGINEERING 2020 - prese
	: Hasan Zarabadipour
Research	Interests
• Multi-	Task Learning
• Self-S	upervised Learning
• Meta-	Learning
• Multi-	Modal Learning
Professio	nal Experience
2023- Present	Business Analyst, Ronak Pharmaceutical Co
2023- Present	Reviewer, International Journal of Industrial Electronics Control and Optimization
2021- Present	Research Assistant, Ronak Pharmaceutical Co
2021- Present	<b>Graduate Teaching Assistant</b> , Electrical and Computer Engineering Department, University of Tehran
Publication	ons
PUBLISHED	
TFNet: Few-S	Shot Identification of LTI Systems Based on Convolutional Neural Networks
Honors a	nd Awards
2020	24th rank, Iran's National University Entrance for Control Engineering Masters Degree
Teaching	Experience

Spring	Trustworthy AI, Teaching Assistant	
2022	rustworthy At, Teaching Assistant	
Fall 2022	Machine Learning, Teaching Assistant	
Fall 2022	Analisys and Design of Neural Networks, Teaching Assistant	
Fall 2022	Linear Control Systems Lab, Teaching Assistant	
Spring 2022	System Identification, Teaching Assistant	
2022	System identification, reaching Assistant	

# Projects \_\_\_\_\_

Completed

#### **TFNET**

This is my main master's project in which I developed a method for parametric and structural identification of industrial systems from a non-persistent excitation and a handful of I/O data.

Ongoing

#### TFNET 2

This project is an improvement on TFNet. In this project, I am utilizing multi-task learning methods to combine the classifier and the parameter estimator to improve TFNet's accuracy and scalability.

#### COURSEWORK PROJECTS

- Implementation of UNet
- Implementation of CycleGan and VQVAE
- Implementation of rotation prediction method
- Adversarial attacks and explainability
- Few-shot classification and person reidentification using contrastive learning
- Implementation of UNet

# Technical Background \_\_\_\_\_

**PROGRAMMING LANGUAGES** 

Python, Matlab, Bash, Julia, R,

MACHINE LEARNING FRAMEWORKS

Scikit-learn, Pytorch, Tensorflow, Flux.jl,

**DEVELOPMENT TOOLS** 

Git, Figma, Jira,

**WRITING TOOLS** 

ETEX, Lyx,

### Personal Interests \_\_\_\_\_

- Guitar playing, singing and making music.
- Playing video games.
- Watching Movies and anime.
- Reading comics and manga.
- Reading about AI, computer hardware, and Linux topics.