Abbas Nosrat

MSc Student · Control Engineering

School of Electrical and Computer Engineering, University College of Engineering, University of Tehran, North Kargar st., Tehran, Iran.

∠ abba	asnosrat@gmail.com 🌴 https://abbasnosrat.github.io/resume/ 🖸 abbasnosra	at in abbas-nosrat-72b261234
Educatio	n	
• Advisors: [of Tehran DL ENGINEERING Dr. Ahmad Kalhor, Dr. Babak N Araabi eta System Identification	Tehran - Iran 2020 - present
BS ELECTRICA	neini International University AL ENGINEERING r. Hasan Zarabadipour	Qazvin-iran 2015 - 2020
Research	n Interests	
• Multi	-Task Learning	
• Self-S	Supervised Learning	
• Meta-	-Learning	
• Multi	-Modal Learning	
Profession	onal Experience	
2021- Present 2021- Present	Research Assistant, Machine Learning and Computational Modeling lab, U Graduate Teaching Assistant, Electrical and Computer Engineering Depart	•
Publicati	ons	
PUBLISHED		
TFNet: Few-	Shot Identification of LTI Systems Based on Convolutional Neural Networks	S
Honors a	and Awards	
2020	24th rank, Iran's National University Entrance for Control Engineering Ma	asters Degree
Teaching	g Experience	
Fall 2022	Machine Learning, Teaching Assistant	
Fall 2022 Fall 2022	Analisys and Design of Neural Networks, Teaching Assistant Linear Control Systems Lab, Teaching Assistant	
Spring	System Identification, Teaching Assistant	

2022

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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,

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.