

Abbas Nosrat

MSC STUDENT · CONTROL ENGINEERING

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

✉ abbasnosrat@gmail.com | 🏠 <https://abbasnosrat.github.io/resume/> | 📧 [abbasnosrat](#) | 🌐 [abbas-nosrat-72b261234](#)

Education

University of Tehran

Tehran - Iran

MSC CONTROL ENGINEERING

2020 - present

- Advisors: Dr. Ahmad Kalhor, Dr. Babak N Araabi
- Thesis: Meta System Identification

Imam Khomeini International University

Qazvin-iran

BS ELECTRICAL ENGINEERING

2015 - 2020

- Advisor: Dr. Hasan Zarabadipour

Research Interests

- Multi-Task Learning
- Self-Supervised Learning
- Meta-Learning
- Multi-Modal Learning

Professional Experience

2021-
Present **Research Assistant**, Machine Learning and Computational Modeling lab, University of Tehran

2021-
Present **Graduate Teaching Assistant**, Electrical and Computer Engineering Department, University of Tehran

Publications

UNDER REVIEW

TFNet: Few-Shot Identification of LTI Systems Based on Convolutional Neural Networks,
To be submitted within the month

Honors and Awards

2020 **24th rank**, Iran's National University Entrance for Control Engineering Masters Degree

Teaching Experience

Fall 2022 **Machine Learning**, Teaching Assistant
 Fall 2022 **Analysis and Design of Neural Networks**, Teaching Assistant
 Fall 2022 **Linear Control Systems Lab**, Teaching Assistant
 Spring
 2022 **System Identification**, Teaching Assistant

Projects

Ongoing

TFNET
 the code will be uploaded on Git hub once the paper is submitted

Ongoing

TFNET 2

Ongoing

USING MIXUP IN SELF-SUPERVISED REPRESENTATION LEARNING FOR ALSIMER’S DISEASE
 CLASSIFICATION FROM FMRI DATA

COURSEWORK PROJECTS

- Implementation of UNet
- Implementation of CycleGan and VQVAE
- Comparison between CircleLoss and TripletLoss
- 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.