

Abbas Nosrat

MSc STUDENT · CONTROL ENGINEERING

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

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

Research Interests

- Multi-Task Learning
- Self-Supervised Learning
- Meta-Learning
- Reinforcement Learning

Publications

IN PREP

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 ---

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

TFNET 2 *Ongoing*

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

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.