

Hüseyin Avni YASAR

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Çankaya, 06810, ANKARA, Turkey

EDUCATION AND TRAINING

09/2019 - 06/2022 - Ankara, Turkey

MASTER OF SCIENCE (M.S.), APPLIED MATHEMATICS - Middle East Technical University

- The aim of this thesis is to use multi-fidelity **neural network** models to obtain similar accuracy to the High-Fidelity Model but at much less computational cost, greatly improving the efficiency of the reliability analysis procedures and using this model to make the design optimization of the panel.
- Developing machine-learning-based solutions to augment physical simulations

Supervisor: Assoc. Prof. Dr. Ercan Gürses (METU)

3.30/4.00 | Thesis: Development of Multi-Fidelity Trained ANN for Optimization of Stiffened Structures

Courses Taken:

- Deep Learning
- Sparse Matrix Computations
- Numerical Optimization

09/2013 - 06/2018 - Ankara, Turkey

BACHELOR OF SCIENCE (B.S.), MECHANICAL ENGINEERING - Middle East Technical University

Engineering thinking, CAD-CAE programs for mechanical design & simulations, MATLAB-Python for developing algorithms

2.80/4.00

PROJECTS

04/2021 - 05/2021

A Sequence Modeling Pipeline with PyTorch for Weather Prediction

Demonstrating a pipeline for training a recurrent neural network

03/2021 - 07/2021

Momentum Batch Normalization for Deep Learning with Small Batch Size

- Reproducing a paper without a code implementation.
- Implementing the models described in the paper and obtain the acceptable results
- Applying Momentum Batch Normalization method to image classification tasks
- Conducting experiments on CIFAR10 and CIFAR100 datasets

WORK EXPERIENCE

08/2018 - CURRENT - ANKARA, Turkey

DESIGN ENGINEER - ROKETSAN

- Development of design automation process for commonly used mechanical components
- Designing optimization algorithms and functional models
- Presentation, justification, and reporting of design studies
- Participating in research and development projects

Programs used:

MATLAB and Python: Optimization and Automation Algorithm

MECHANICAL ENGINEER (PART-TIME) - TAI - TURKISH AEROSPACE INDUSTRIES

Practicing and utilizing CAD program for Flight Control System Design

08/2017 - 09/2017 - Sakarya, Turkey

PRODUCTION TRAINEE - TOYOTA MOTOR MANUFACTURING TURKEY

Observing manufacturing technologies and processes in a well-known automotive company

06/2017 - 07/2017 - Ankara, Turkey

R&D TRAINEE - TAI - TURKISH AEROSPACE INDUSTRIES

Design, implementation, process development of the composite structures used in aircraft applications

LANGUAGE SKILLS

Mother tongue(s): TURKISH

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C2	C1	C1	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Matlab | Python | Optimization | Data Analysis | Data Science | Deep Learning | Machine Learning

MEMBERSHIPS

METU IEEE, METU IAESTE

TECHNICAL QUALIFICATIONS

Personal Qualification

Analytical thinking, Systematic problem-solving approach, Result-Oriented attitude, Commitment to implement

Communication and interpersonal skills

Effective verbal-writing skills, Good team member, Working / living in harmony with people from different nations and cultures

HOBBIES AND INTERESTS

Playing Guitar, Aikido, Cycling