Enes Ulas Dincer

Research and Teaching Assistant

September 15, 1999

Sariyer / Istanbul, Turkey

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enesulasdincer.github.io

CORE COMPETENCIES

Physical Human-Robot Interaction **Robot Control** **Deep Learning** **Control Theory** **Robust Control**

EDUCATION

Master of Science (2022 – Present)	**Koç University, Turkey** *[In QS 2024, ranked 431th in the overall ranking and 331th in the engineering & technology subject area]* Mechanical Engineering (**GPA:** 3.81 / 4.0) *Graduate School of Science and Engineering* Robotics and Mechatronics Laboratory KUIS Artificial Intelligence Center **Supervisor:** Prof. Cagatay Basdogan
• *Teaching Experiences*	Mechanical Engineering Design (Fall 2024) Dynamic Modeling and Control (Spring 2023, Fall 2023)
• *Publications*	**Can a Robot Resolve Conflicts with a Human During Co-Manipulation? (Submitted)** *ACM Transaction on Human-Robot Interaction [Impact Factor: 5.]* Enes Ulas Dincer, Zaid Al-Saadi, Yahya M. Hamad, Yusuf Aydin, Ayse Kucukyilmaz, Cagatay Basdogan
• *Courses*	• *Robotics* • *Deep Learning* • *Reinforcement Learning* • *Human-Robot Interaction* • *Computer Graphics*
Bachelor of Science (2017 – 2022)	**Istanbul Technical University, Turkey** *[In QS 2023, ranked 404th in the overall ranking and 108th in the engineering & technology subject area]* Control and Automation Engineering (**GPA:** 3.87 / 4.0), **Valedictorian** *Faculty of Electrical and Electronics Engineering* **Thesis Title:** "Implementing a New Algebraic Technique for MIMO Systems Stability in Modern Automatic Flight Control" **Thesis Supervisor:** Doç. Dr. İlker Üstoğlu
• *Courses*	• *System Modelling and Simulation* • *Feedback Control Systems* • *Computer Controlled Systems* • *Robot Control* • *State Space Methods in Control Systems* • *Optimal Control Theory* • *Introduction to Nonlinear Control Systems*

AWARDS

2022	**Koc University - Is Bankasi Artificial Intelligence Center Fellowship**	
	[Fellows were selected by examination in mathematics and computer programming.]	
2022	**Istanbul Technical University – Control and Automation Engineering**	
	Highest ranked student of the department	
2017	**Istanbul Technical University – Chess Tournament**	
	First Ranked	

WORK EXPERIENCES

January 2022 – February 2022	**Baykar Makina, Istanbul, Turkey**
	Part-Time Working Student
	Design of a Hardware-in-the-Loop (HIL) System for Armed and Unarmed Unmanned Aerial Vehicle (UAV) Projects
August 2021 – September 2021	**Baykar Makina, Istanbul, Turkey**
	Engineering Intern

COMPUTER & HARDWARE SKILLS

Programming Languages	**C++**	●●●●●	**Python**	●●●●●
	MATLAB	●●●●●		
Software Packages	**Simulink, Mathematica**			
Deep Learning Frameworks	**TensorFlow w/Keras**			

ACTIVITIES

2021 - 2022	***ITU – Lagari Thrust Rocket Team***
2017 - 2018	***ITU - Fencing***

LATEST PROJECTS (**More Details: https://enesulasdincer.github.io/#research_projects**)

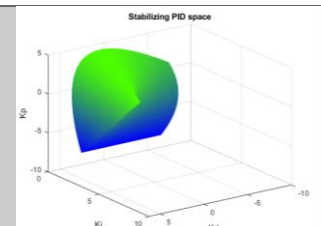|		
Can a Robot Resolve Conflicts with a Human During Co-Manipulation?	Universal Robot UR5, ATI Mini 45 F/T Sensors C++, Python (Keras), MATLAB Adaptive Admittance Controller, Machine Learning	
Fast Calculation of Robust Stabilizing PID Controllers for SISO systems	MATLAB, Mathematica PID Controllers, Robust Control, Stabilization, Controller Design	

Robust Control of TITO Systems Under Multiplicative Uncertainty and a Case Study: Longitudinal Control of a Fixed-Wing Aircraft

MATLAB, Mathematica

Robust Control, System Modelling, Flight Dynamics, Stability Analysis

LANGUAGES

Turkish: *Native*   **English:** *Advanced*   **German:** *Basic*

INTERESTS

Basketball (Played 6 seasons in the Turkish Basketball Federation, with 3 league championships titles.), Chess (First ranked in ITU), Reading, Etymology

REFERENCES

Prof. Çağatay Başdoğan

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Koç University, Istanbul, Turkey

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