Adnan Can Büyükşirin

CONTACT INFORMATION

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ABOUT

Solutions-oriented Electronics and Communication Engineering student, eager to learn and improve himself about Signal Processing, and Artificial Intelligence in Wireless Communication fields.

EDUCATION

B.Sc. in Electronics and Communication Engineering
Istanbul Technical University, Istanbul, Turkey
2019-Ongoing (Expected Spring 2023-2024)
GPA: 3.98/4.00

B.Sc. in Mathematics Engineering (Double Major)
Istanbul Technical University, Istanbul, Turkey
2021-Ongoing (Expected Spring 2024-2025)
GPA: 3.85/4.00

EXPERIENCE

February 2023 - Present

ITU Wireless Communication Research Laboratory (Undergraduate Student Researcher)
-Focused on prediction based handover using statistical signal processing, and deep learning algorithms in Python.
-Published a conference paper called “Handover Method Based on Time Series Analysis” in 2023 IEEE Signal Processing and Communications Applications Conference (SIU).

July-August (2023)

ASELSAN (Internship)
-Learned about Point-to-Point (PTP) communication systems. Set a PTP communication system in the laboratory.
-Wrote a script in Python to get network performance features via the established PTP communication system using SNMP (Simple Network Management Protocol).

June-July (2022)

ITU Aerospace Research Center – Avionics Laboratory (Internship)
-Learned about the main Dense and Sparse Optical Flow algorithms. Implemented these algorithms using MATLAB.
-Researched about Optical flow using color information (HSV Color space) and implemented it using MATLAB.

PUBLICATIONS

1. A. C. Büyükşirin, E. M. Çırpar, M. B. Kömürcü and S. T. Basaran, "Handover Method Based on Time Series Analysis," 2023 31st Signal Processing and Communications Applications Conference (SIU), Istanbul, Turkiye, 2023, doi: 10.1109/SIU59756.2023.10223764.

PROJECTS

My projects can be found on GitHub via following URL:
https://github.com/adnancanb

TECHNICAL SKILLS	**Programming Languages:** Python, MATLAB, C/C++ **Deep Learning Frameworks:** PyTorch, TensorFlow **Programming Libraries:** NumPy, pandas, scikit-learn, Matplotlib, Seaborn, SFML, tkinter, pysnmp **Core Programming Competencies:** Data Structures, Algorithms, Object-Oriented Programming **Electronic Design and Simulation:** LTspice, Xilinx ISE **Document Formatting and Typesetting:** LaTeX
LANGUAGE SKILLS	-Turkish (Native) -English (Full Proficiency) -German (Starter)
CERTIFICATES	-Supervised Machine Learning: Regression and Classification on Coursera https://coursera.org/share/97ad61ba1e4c6a01eb4a72dc6075fdeb -Advanced Learning Algorithms on Coursera https://coursera.org/share/71daad1ea9f75634ae4e9740c67d9e1b