Oğul Can Yurdakul

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Languages

Natural: Turkish (Native Speaker), English (Advanced), French (Intermediate)
Formal: MATLAB, Python, Assembly (ARM Thumb2), ANSI Common LISP, WebPPL

Research Interests

- Statistical Signal Processing
- Computational Neuroscience
- Cognitive Science

Education

10/2021 – Present | **M.S. in Electrical and Electronics Engineering** — ***METU EEE***
Specialization Area: Signal Processing

10/2017 – Present | **B.S. in Mathematics (Double Major)** — ***METU MATH***
Expected Graduation: June 2022 | CGPA: 3.84 / 4.00

10/2016 – 02/2021 | **B.S. in Electrical and Electronics Engineering** — ***METU EEE***
Specialization Area: Biomedical Engineering | CGPA: 3.76 / 4.00

Publications

2020 | 1. **Yurdakul, O. C.**, Subathra, M. & George, S. T. Detection of Parkinson's Disease from gait using Neighborhood Representation Local Binary Patterns. *Biomedical Signal Processing and Control* **62,** 102070. doi:10.1016/j.bspc.2020.102070 (2020).

Work Experience

09/2019 – Present | **Lab Member** — ***METU EEE Sensor Fusion Laboratory***
Under the supervision of Dr. Emre Özkan, I study statistical signal processing, with emphasis on particle filters and Chernoff fusion.

07/2019 – 09/2019 | **Summer Intern in Research** — ***Karunya Institute of Technology and Sciences, India***
I proposed a new feature extraction method based on Local Binary Patterns, and showed that it was useful in a classification task [1].

07/2018 – 08/2018 | **Summer Intern** — **IBM Turkey, Istanbul Office**
I observed the process of data center migration on the field and helped the team in various tasks.

Leadership and Teaching Experience

07/2021 | **Teaching Assistant for Tutorials** — ***NMA CN Summer School***
I was responsible for a pod (6 students) in NMA CN online summer school for 3 weeks. I helped them go over tutorials about fundamental topics on computational neuroscience and develop a project, answered their questions about the coding exercises and the underlying theory. Curriculum

02 – 07/2020 & 10 – 12/2018 | **Part-time Student Assistant** — ***METU MATH***
I was the student assistant for the course MA153 Calculus for Mathematics Students I (Fall 2018) and MA154 Calculus for Mathematics Students II (Spring 2020). I graded weekly assignments and provided feedback to students.