Yiğit Çağatay **Kuyu**

Senior Autonomous Driving Software Engineer, PhD

CONTACT

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🏠 Nilufer/Bursa/Turkey

AWARDS

- **Best PhD Thesis Award** at Uludag University, 2023

- **Second Prize**, Original Project Competition, Bursa, Turkey, 2013

- Design of Algorithm-Based Online Filter Simulator, Uludag University Research Support Program (BAP), HDP(MH)-2016/19, 2016-2017, as a **researcher**.

- The Effects of Random Numbers on the Performance of the Algorithms, Uludag University Research Support Program (BAP), 2021-2023, as a **researcher**.

LANGUAGES

Turkish - Native

English – Full Professional

SUMMARY

- Detail-oriented engineer with over 7-year background in designing, implementing algorithms for different applications.
- Performed object detection and tracking algorithms and their hyper-parameters analyses for perception stack.
- Skilled in developing route planning algorithms to effectively determine the road network, enhancing overall navigation efficiency.
- Well-versed in working on trajectory modelling and planning, gaining valuable experience in this domain.
- Took responsibility to manage research activities including designing, performing experiments, analysing the results of studies statistically, and converting studies done into publications.

PROVEN SKILLS

- Developed two university-supported projects related to the algorithms.
- Developed a project and awarded a runner-up prize at the Original Project Competition held at Turkey.
- Recognized for exceptional research achievements, including receiving the prestigious Best PhD Thesis Award among a highly competitive pool of talented students.
- Utilized mathematical modeling to address real-world issues and optimize solutions
- Participated in the research group in the Speech and Image Processing Unit at the University of Eastern Finland in which increasing theoretical knowledge.
- Participated in the Artificial Intelligence Research Group at the University of Deusto in which studying on algorithms.
- Developed a suite of RL projects independently to deepen expertise in different algorithms.
- Published a lot of studies in high-quality journals, and presented many studies in the international conferences and workshops.

EDUCATION

Uludag University, Turkey

-Ph.D., Electronic Engineering, 2016-2023

Thesis topic: Novel Metaheuristic Approaches for Optimization Problems

-M.S., Electronic Engineering, 2014-2016

Thesis topic: Filter Designs with Evolutionary Algorithms

-B.S., Electronic Engineering, 2008-2013

Thesis topic: The Investigation of Image Processing Techniques