

Onur Yigit Arpalı

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EDUCATION

Middle East Technical University <i>Master of Science in Computer Engineering (Cyber-Physical Systems)</i>	Ankara, Turkey Feb. 2019 – Expected graduation: June 2021
Middle East Technical University <i>Bachelor of Science in Computer Engineering</i>	Ankara, Turkey Sep. 2013 – Dec. 2018

EXPERIENCE

Research and Teaching Assistant <i>Middle East Technical University</i>	Jan. 2019 – Present Ankara, Turkey
<ul style="list-style-type: none">Working for "Decision Support Methods for Restoration in Earthquake-Damaged Medium Voltage Electrical Distribution Networks" project funded by The Scientific and Technology Research Council of Turkey (Tübitak). Project LinkThe dissertation topic is "MDP Based restoration strategies for electrical distribution networks". Working at CPS research groupTeaching assistantship to the courses:<ul style="list-style-type: none">* Formal Languages and Abstract Machines * Discrete Computational Structures* Cloud Computing * Computer Aided Formal Verification * Intr. to Database Management Systems	
Part-time Software Engineer <i>MilSOFT Yazılım Teknolojileri A.Ş.</i>	Sep. 2018 – Oct. 2018 Ankara, Turkey
<ul style="list-style-type: none">Tactical Data Link ProjectImplementing Link16 defined by NATO's Standardization Agreement STANAG 5516(C++, DOORS)	
Research Assistant <i>Sabancı University</i>	June 2018 – Aug. 2018 Istanbul, Turkey
<ul style="list-style-type: none">Designing and developing visual techniques to explain popular ML algorithmsWorked at Behavioral Analytics & Visualization Lab under supervision of Selim Balcisoy	
Co-op Program Intern <i>Turkish Aerospace Industries, Inc. (TAI)</i>	June 2017 – Sept. 2017 Ankara, Turkey
<ul style="list-style-type: none">Developing head-up display simulation for Hürkuş with OpenGL (stencil testing, anti-aliasing) and C++ design patterns by parsing opcode and simulating orders and objectsDeveloping a data compression tool which compresses specifically bmp files to 1 out of 20 at most for modernization of F-16 aircrafts project	

PUBLICATIONS

I. Isik, O. Y. Arpalı, E. A. Gol, "Optimal Policy Synthesis from A Sequence of Goal Sets with An Application to Electric Distribution System Restoration", *7th IFAC Conf. on Analysis and Design of Hybrid Systems*

O. Y. Arpalı, U. C. Yilmaz, E. A. Gol, B. G. Erkal and M. Gol, "MDP based Decision Support for Earthquake Damaged Distribution System Restoration," 2020 IEEE Power Energy Society General Meeting (PESGM), Montreal, QC, 2020.

I. Balaban, F. Acun, O. Y. Arpalı, et al. "Development of a Forecasting and Warning System on the Ecological Life-Cycle of Sunn Pest", *DTSS 2018*

SKILLS

- Turkish: Native, English: Full professional proficiency, IELTS:7.0
- Technical Skills
 - Languages:* Python, C/C++, Java, SQL, Haskell, R
 - Frameworks and Libraries:* Django, Flask, Weka, Scikit-Learning, TensorFlow, pandas, NumPy, Matplotlib, NetworkX
 - Developer Tools:* Git, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ

Awards and Interests: Metu Demo Day(Ranked 1st out of 30 Senior Design Project), Triathlon and Mountain Biking.