Tolga Üstünkök

Software Engineer

"If you need more than 3 levels of indentation, you're screwed anyway, and should fix your program."
- Linus Torvalds

Education

2018–Present **Master's in Software Engineering**, *Atılım University*, Ankara, *3.36/4.00*.
Multi-Label Classification of Remotely Sensed Images

2013–2017 **Bachelor's in Computer Engineering**, *Atılım University*, Ankara, *3.23/4.00*.

2009–2013 **High School**, *TED Ankara College Private High School*, Ankara, *72.84/100*.

Master thesis

Title *SS-MLA: A Novel Solution for Multi-Label Classification of Remotely Sensed Images*

Supervisor Assoc. Prof. Dr. Murat KARAKAYA

Abstract Multi-label classification of remotely sensed images is a very important research area. It has many applications from tracking urban growth to military surveillance. In this thesis, a competitive Vector-Quantized Temporal Associative Memory (VQTAM) based method called Semi-Supervised Multi-Label Annotizer (SS-MLA) is proposed for multi-label annotation of remotely sensed images. The experiment results show that SS-MLA, as a new approach, achieves better results than half of the comparisons.

Experience

Vocational

2018–Present **Research Assistant**, *Atılım University*, Ankara.
Operating systems, Digital electronics and microcontrollers, software testing

2017–2018 **Software Engineer**, *Yalabık Engineering and Consultancy*, Ankara.
Embedded systems, Evaluation and testing of military simulation systems

2016–2016 **Internship**, *Rönesans Endüstriyel Otomasyon*, Ankara.
PLC Programming Internship

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| 2015–2015 | **Internship**, *HAVELSAN EHSIM*, Ankara. |
| | Embedded Systems Internship: Communication protocol implementation on Xilinx FPGAs via VHDL. |

Languages

English	Very High	TOEFL IBT Score: 101 (Valid Until: 20/02/2023)
French	Low	
Turkish	Native language	

Computer skills

Prg. Langs.	Python, C/C++, Java, SML, Prolog, Lisp
Virtualization	Docker, WSL, KVM
Office Apps.	Libreoffice, LaTeX, MS Office
Frameworks	Django

Interests

Pianist	For over two decades.
Guitarist	Graduate from Hacettepe State Conservatory Part Time Guitar Department
Tubist	For 15 years at TED Symphony Orchestra

Extracurricular Activities

| 2017–Present | **TED Symphony Orchestra**, *Board Member*, Ankara. |
| 2007–Present | **TED Symphony Orchestra**, *Tubist*, Ankara. |

Miscellaneous Skills and Certificates

| 2006–2010 | **Part Time Guitar**, *Hacettepe University Ankara State Conservatory*, Ankara. |
| 2003–2006 | **Children's Ballet**, *State Opera and Ballet*, Ankara. |

Blog Posts

05/2020	How to Create a GPU Powered Containerized Multi-User JupyterHub Research Server?
07/2019	Simple Docker Based Virtual Private Server
07/2019	What Is Information Gain in Information Theory?
07/2019	What Is Information Gain in Information Theory?

Publications

[1] **Ustunkok, T.**, O. C. Acar, and M. Karakaya. Image Tag Refinement with Self Organizing Maps. In *1st International Informatics and Software Engineering Conference: Innovative Technologies for Digital Transformation, IISEC 2019 - Proceedings*. Institute of Electrical and Electronics Engineers Inc., nov 2019.

[2] **Ustunkok, T.** and M. Karakaya. Effect of PSO Tuned P, PD, and PID Controllers on the Stability of a Quadrotor. In *1st International Informatics and Software Engineering Conference: Innovative Technologies for Digital Transformation, IISEC 2019 - Proceedings*, 2019.

[3] A. Yazici, A. Mishra, Z. Karakaya, and **Ustunkok, T.** Informatics Engineering Education in Turkey and Expectations of Software Industry. In *UBMK 2018 - 3rd International Conference on Computer Science and Engineering*, 2018.

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