

# Deniz Engin

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Website

Google Scholar

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## Research Interests

I am interested in Computer Vision and Natural Language Processing, focusing on understanding videos and addressing related questions under various forms of supervision. I aim to create innovative solutions to enrich our vision and language understanding. I have experience in diverse vision and language projects, including facial expression recognition, image dehazing, detecting and verifying signatures, and multimodal document classification for academic and industry-based projects, and published research papers.

## Education

- 2020 – 2024    **University of Rennes** - Rennes, France  
PhD, Computer Science  
Subject: Multimodal Video Understanding  
Supervisor: Yannis Avrithis, Teddy Furon
- 2014 – 2017    **Istanbul Technical University** - Istanbul, Turkey  
M.Sc., Electronics Engineering  
Erasmus Program - KU Leuven, Belgium  
Thesis title: "*Facial Expression Pair Matching*"
- 2009 – 2014    **Istanbul Technical University** - Istanbul, Turkey  
B.Sc., Electronics Engineering

## Professional Experiences

- Sep. 2020 – Feb. 2024    **PhD Student** Inria – Rennes, France  
Proposed parameter-efficient zero-shot and few-shot VideoQA: Publication [1]  
Proposed a knowledge-based VideoQA method collaboration with InterDigital: Publication [2]
- Sep. 2020 – Jun. 2022    **Researcher** InterDigital – Rennes, France  
Worked on multimodal video understanding projects, specifically focusing on Video Captioning and VideoQA: Publication [2]
- Jan. 2018 – Mar. 2020    **R & D Engineer Specialist** Yapı Kredi Technology – Istanbul, Turkey  
Developed offline signature detection & verification system: Publication [3]  
Developed multimodal document classification system: Publication [4]
- Jul. 2017 – Sep. 2017    **Research Intern** EPFL Signal Processing Lab (LTS5) – Lausanne, Switzerland  
Cross-Pose Facial Expression Recognition via Transfer Learning: Publication [5]
- Jul. 2016 – Jan. 2018    **Researcher** ITU SiMiT Lab – Istanbul, Turkey  
Single Image Dehazing via CycleGAN: Publication [6]  
Facial Expression Recognition via Transfer Learning: Publication [7]

## Selected Publications

- 1 **D. Engin** and Y. Avrithis, “Zero-shot and few-shot video question answering with multi-modal prompts,” in *Proc. ICCV Workshops*, 2023. **[Oral Presentation]**.
- 2 **D. Engin**, F. Schnitzler, N. Q. Duong, and Y. Avrithis, “On the hidden treasure of dialog in video question answering,” in *Proc. ICCV*, 2021.
- 3 **D. Engin\***, A. Kantarci\*, S. Arslan, and H. K. Ekenel, “Offline signature verification on real-world documents,” in *Proc. CVPR Workshops*, 2020.
- 4 **D. Engin**, E. Emekligil, B. Oral, S. Arslan, and M. Akpınar, “Multimodal deep neural networks for banking document classification,” in *Proc. IMMM*, 2019. **[Best Paper Award]**.
- 5 **D. Engin**, C. Ecabert, H. K. Ekenel, and J.-P. Thiran, “Face frontalization for cross-pose facial expression recognition,” in *Proc. EUSIPCO*, 2018.
- 6 **D. Engin\***, A. Genç\*, and H. Kemal Ekenel, “Cycle-Dehaze: Enhanced cyclegan for single image dehazing,” in *Proc. CVPR Workshops*, 2018.
- 7 **D. Engin** and H. K. Ekenel, “Facial expression pair matching,” in *Proc. SIU*, 2017.

## Skills

- Python, C, MATLAB, Unix Shell Scripting, SQL, Git, Docker
- Pytorch, TensorFlow, Keras

## Languages

- Turkish - Native Proficiency
- English - Full Professional Proficiency
- French - Elementary Proficiency

## Summer Schools & Symposiums

- ICVSS 2022 International Computer Vision Summer School, Sicily, Italy. (10 - 16 Jul.)
- ELLIS 2021 ELLIS Doctoral Symposium, Tübingen, Germany. (27 Sep. - 1 Oct.)
- PAISS 2021 PRAIRIE/MIAI Artificial Intelligence Summer School, Online. (5 - 9 Jul.)

## Awards and Achievements

- 2019 Best Paper Award at IMMM 2019
- 2018 ECCV Woman in Computer Vision Workshop Travel Grant
- 2016-2017 Research Scholarship from National Research & Technical Council of Turkey
- 2015-2016 Exchange Student Grant by Erasmus Program

## Reviewer Activities

- 2023 CVPR, ICCV
- 2022 ECCV