

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. Akpinar, “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

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| 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

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| 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

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| 2023 | 📖 CVPR, ICCV |
| 2022 | 📖 ECCV |