Deniz Engin

☐ +33769012293 | ✉ denizengin255@gmail.com

🌐 Website | 🎓 Google Scholar | ⌨ GitHub | 🔗 Linkedin

Research Interests

Computer Vision, Natural Language Processing, Multimodal Video Understanding, Video Question Answering

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 - Video Captioning and VideoQA: Publication [2]
2 Patent Applications

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

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