MohamedAli Souibgui

PhD Student,
28 years old

Computer Vision Center, Edifici O, UAB
08193
Bellaterra, Barcelona, Spain
+34 691617408
msouibgui@cvc.uab.es
linkedin.com/in/mohamed-ali-souibgui

Education and Certificates

Oct 2019–Now **PhD student in computer science**, *Autonomous university of Barcelona*, Computer Vision Center (CVC), Topic: *Recognition of handwritten ciphers*.

2018 **Certificate in Deep Learning Specialization**, *a 5-course specialization by deeplearning.ai*, on Coursera.

Sep 2015–Mar 2018 **Master's degree in computer science**, *Faculty of sciences*, Monastir, *Master's degree*.
Modeling of automatic reasoning systems

Sep 2012–Jun2015 **Bachelor's degree in computer sciences**, *Faculty of sciences*, Monastir, *Bachelor's degree*.

Experience

Oct 2019–Now **Pre-doctoral Researcher**, *Computer Vision Center (CVC)*, Barcelona, Computer vision within the document analysis group.

Internships

Mai 2019–Jun 2019 **Research visit**, *Computer vision center (CVC)*, Barcelona.

Feb 2017–Sep 2017 **Master thesis internship**, *MARS Laboratory*, Monastir.

Research projects

2019– Now **Decrypt project: Recognition of handwritten ciphers using computer vision and deep learning tools**, *Computer Vision Center*, Barcelona.

Research interests

- Artificial intelligence

- Computer vision
- Machine learning / Deep learning
- Document analysis
- Natural language processing

Languages

English Excellent writing, good speaking
French Good writing, good speaking
Arabic Native language

Computer skills

- Object-oriented programming: Python (Pytorch ,Keras, Tensorflow, ...), Matlab, C++, C#, Java ...
- Logic programming: Prolog

Publications

Journals:

- **Souibgui, M. A.**, & Kessentini, Y. (2020). *DE-GAN: A conditional generative adversarial network for document enhancement*. IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI).

Conferences:

- Chen, J., **Souibgui, M. A.**, Fornés, A., & Megyesi, B. (2020, May). *A Web-based Interactive Transcription Tool for Encrypted Manuscripts*. In Proceedings of the 3rd International Conference on Historical Cryptology HistoCrypt 2020 (No. 171, pp. 52-59).
- **Souibgui, M. A.**, Fornés, A., Kessentini, Y., & Tudor, C. (2020). *A Few-shot Learning Approach for Historical Ciphered Manuscript Recognition*. In 2020 25th International Conference on Pattern Recognition (ICPR). IEEE.
- **Souibgui, M. A.**, Kessentini, Y., & Fornés, A. *A Conditional GAN Based Approach for Distorted Camera Captured Documents Recovery*. In 2020 4th Mediterranean Conference on Pattern Recognition and Artificial Intelligence (MedPRAI). Springer.
- Chen, J., **Souibgui, M. A.**, Fornés, A. & Megyesi, B. (2021, August). *Unsupervised Alphabet Matching in Historical Encrypted Manuscript Images*. In the 4th International Conference on Historical Cryptology HistoCrypt (pp. 34-37).

Workshops:
- Torras, P., **Souibgui, M. A.**, Chen, J., & Fornés, A. (2021, September). *A Transcription Is All You Need: Learning to Align Through Attention*. In International Conference on Document Analysis and Recognition (GREC Workshop) (pp. 141-146). Springer, Cham.

Papers Under Revision

Journals:
- Jemni, S. K.*, **Souibgui, M. A.***, Kessentini, Y. &. Fornés, A. *Enhance for Better Reading: An Improved Generative Adversarial Network for Handwritten Document Recovery*. Pattern Recognition (In First Revision).
- **Souibgui, M. A.**, Fornés, A., Kessentini, Y., & Megyesi, B. (2021). *Few Shots Is All You Need: A Progressive Few Shot Learning Approach for Low Resource Handwriting Recognition*. Pattern Recognition Letters (Submitted).

Conferences:
- **Souibgui, M. A.***, Biten, A. F.*, Dey, S.*, Fornés, A., Kessentini, Y., Gomez, L., Karatzas, D. & Lladós, J. *One-shot Compositional Data Generation for Low Resource Handwritten Text Recognition*. In Winter Conference on Applications of Computer Vision (WACV) (Submitted).

Awards

- **Best student paper award:** The prize was given by the ICPR 2020 organizing committee for the paper entitled: $A\ Few-shot\ Learning\ Approach\ for\ Historical\ Ciphered\ Manuscript\ Recognition$

1

* These authors were equally contributed to the paper.