



✉ wone.abdou@yahoo.fr

🏠 CAEN

🔗 wone.science

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Languages

English

C1

French

Native

Spanish

Basic

Misc

Affiliations:

FIDO IDWG, FIDO CWG, AFNOR CN 37, ISO SC37/WG3, ISO SC37/WG5

Others:

- Qualified as computer science associate professor
- FIDO, Mastercard, and ANDROID biometric test evaluator
- Associate researcher at GREYC lab within SAFE team

Social networks

in Abdarahmane WONE

Abdarahmane WONE

PhD in CS

PhD in computer science applied to biometrics, cybersecurity and computer vision

Skills

Programming

Python, Deep Learning (deployment, classification, fine-tuning), Computer Vision, Torch, TensorFlow, Keras, Machine Learning, data mining, Matlab/Simulink, C

Biometrics

Extraction, Authentication, Performance, Presentation attack detection, Test schemes/certifications (Fido, Mastercard, Android)

Miscellaneous

Project management, Research, Teaching, Training, Consulting, GIT, SVN

Work experience

AI applied to biometrics engineer

Since October 2023 [FIME SAS](#) Caen

- Research and deployment of synthetic data generation models
- Expertise on tested biometric solutions
- Evaluation of biometric products
- Pre-sales and management of biometric projects
- Review of test reports

Biometrics researcher

From September 2020 to September 2023 [FIME SAS](#) Caen

PhD Candidate in biometrics/cybersecurity

- Research
- evaluation of biometric products
- Expertise on biometrics and deep learning topics
- Tutoring

Biometric test engineer

From November 2019 to August 2020 [FIME SAS](#) Caen

Evaluation of fingerprint and face recognition products with respect to Mastercard or FIDO biometric requirements

Education

PhD thesis

From 2020 to 2023 [Université de Caen Normandie](#) Caen

Contribution to the certification of fingerprint systems: towards the reproducibility of the evaluation:

- Generation of attack instruments using multi-domain style transfer CNNs simulating different materials used to evaluate robustness to attacks for fingerprint systems.
- Demonstration and understanding of interoperability problems within fingerprint systems:
Building of a fingerprint datasets to study correlation between fingerprint algorithms and the source of the data as well as usability and security risks.
- Study of impact of environmental conditions on fingerprint systems:
Building of a dataset under controlled environmental conditions (temperature and humidity) with demonstration of relation between fingerprint system's efficiency and environmental conditions using different algorithms and statistical methods.

Electronic engineer

From 2016 to 2019

[ENSEA : Ecole Nationale Supérieure de l'Electronique et de ses Applications](#) Cergy-Pontoise

Computer science Research Master

From 2018 to 2019 [Université de Cergy-Pontoise](#) Cergy-Pontoise

Signal processing and computer vision

Higher School Preparatory Classes, physics and engineering science (CPGE)

From 2013 to 2016 [Lycée d'Arsonval](#) Saint-Maur-des-Fossés

Highly selective classes to prepare for the competitive exams to the Top engineering schools