

Assia Benbihi

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python, C++

github.com/abenbihi

Education

GeorgiaTech Lorraine <i>PhD in Computer Vision and Machine Learning (DREAM Lab)</i>	Metz, France, 05/17-05/20
Georgia Institute of Technology <i>Master of Electrical and Computer Engineering</i>	Atlanta, Georgia, 12/16
Telecom SudParis <i>Master of Science in Telecommunication Engineering</i>	Paris, France, 06/15

Publications

An up-to-date list is available [here](#).

Image-Based Place Recognition on Bucolic Environment Across Seasons From Semantic Edge Description

A Benbihi, S Arravechia, M Geist, C Pradalier, Preprint 2019

ELF: Embedded Localisation feature in pre-trained CNN A Benbihi, M Geist, C Pradalier, ICCV 2019

Semantic Nearest Neighbor Fields Monocular Edge Visual-Odometry X Wu, A Benbihi, A Richard, C Pradalier, Preprint 2019

Semi-Supervised Domain Adaptation with Representation Learning for Semantic Segmentation across Time A Benbihi, M Geist, C Pradalier, ICONIP 2019

Learning Sensor Placement from Demonstration for UAV Networks A Benbihi, M Geist, C Pradalier, ISCC 2019

Automated segmentation and classification of land use from overhead imagery A Richard, A Benbihi, C Pradalier, V Perez, P Durand, R Van Couwenberghe, ICPA 2018

Work Experience

Thales <i>Software Engineer</i>	05/17-
I develop a software solution to automate visual inspection on low-contrast images with few features(C++).	
Thales <i>Software Developer</i>	02-04/17
I run functional tests using Robot Framework on a network monitoring software against security breaches.	
Thales <i>Research Software Architect Intern</i>	01-07/16
I designed and developed a prototype of large-scale searchable encryption from a theoretical paper (C++).	

Honours

Prix Andre Blanc-Lapierre; Prix Fondation Mines-Telecom 2nd	2016
I received a 3500€ fellowship that rewards the most innovative contributions of interns among French engineering schools.	

Software

Nonexhaustive list of libraries/tools I have played with: OpenCV, Tensorflow, Numpy, Pytorch, COLMAP, Caffe, scikit-learn, ROS, Shell, UML, Enterprise Architect.

Open Source Contribution

WASABI (Python) Research code for image retrieval from semantic edge geometric features.

pydata (Python) Set of tools to load and parse the CMU-Seasons and the Symphony dataset.

ELF (Python) Research code for image feature matching.

Scikit-learn (Python) Functional tests.

Leadership

Mater Student Project Manager I define and manage 2 weeks code-oriented research project related to computer vision and machine learning for master students at GeorgiaTech Lorraine.

Team manager(06/13-06/15) **AIESEC** is the world's largest youth-run organization that provides young people with leadership development, cross-cultural internships, and volunteering experiences abroad.

- I led a 9-person team to develop the 1st edition of a global volunteering project in France. We provided 5 underprivileged high schools with 9 international teaching assistants to bring cultural awareness among students.
- The next year, I recruited and trained 9 student volunteers for international interns head-hunting.

Economic Intelligence Research Assistant for a start-up on mindfulness. I experimented and gave feedback on innovative PNL workshops led by Jean-Maurice Bruneau (Associate Professor), involving Sun-Tsu art and self-defense.