João Cartucho

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EDUCATION

Instituto Superior Técnico

Lisbon, Portugal Aerospace Enginnering Expected Grad. May 2018

Carnegie Mellon University

Pittsburgh, PA, USAVisiting Scholar, Machine Learning

Politecnico di Torino

Torino, Italy Erasmus in Computer Science

SKILLS

Languages:

Portuguese, Italian, English Programming: C, C++, Python, Java, SQL, HTML Software: Git, OpenCV, ROS, CMake, Shell

COURSEWORK

Algorithms
Artificial Intelligence
Autonomous Systems
Computer Vision
Data Structures

AWARDS

Academic Merit Diploma FCT Scholarship

REFERENCES

Manuela Veloso

Machine Learning Department School of Computer Science Carnegie Mellon University mmv@cs.cmu.edu

Vincent Rabaud

Google Inc., Senior Software Engineer OpenCV Foundation, Co-founder vincent.rabaud@gmail.com

EXPERIENCE

Institute For Systems and Robotics

Jan 2018 - current

• Worked with Monarch Mbot (from IDMind Robotics).

CORAL Lab at CMU

Oct 2017 - Dec 2017

 Worked with CoBot (Collaborative roBot), and Pepper (from SoftBank Robotics).

Google Summer of Code

2016 and 2017

Adding to OpenCV (Computer vision library):

- Tools for multi-language tutorials;
- Function/method prototypes for the Python bindings;
- 20 updated tutorials (in C++, Java and Python).

PROJECTS

Drone Localization

Course: Autonomous Systems | Grade 0-20 : 19 (best in class)
Real-time pose estimation (position + orientation) using data from aerial images.

Fingerprint Badging System

Course: Project & Lab on Communication Systems | Grade 0-30: 30L A badging system device that allows companies to manage level of access, time and attendance tracking.

PUBLICATIONS

Towards a Robust Interactive and Learning Social Robot

Accepted to AAMAS 2018.

M. Jong, K. Zhang, T. Rhodes, A. Roth, R. Schmucker, C. Zhou, S. Ferreira, J. Cartucho, M. Veloso.

Robust Object Recognition Through Symbiotic Deep Learning In Mobile Robots

Submitted to IROS 2018.

João Cartucho, Rodrigo Ventura, Manuela Veloso.

VOLUNTEFRING

StackOverflow

Over 225,000 people reached.

Youth Exchanges in:

Italy, Portugal, Turkey, Greece, Romania, Netherlands, Finland.

03.08.2018