Víctor Massagué Respall

vmassague5@gmail.com | +7 950 328 04 29 | Personal Website

FDUCATION

INNOPOLIS UNIVERSITY | MASTER IN ROBOTICS

Aug. 2018 - Expected June 2020 | Innopolis, Russia

INNOPOLIS UNIVERSITY | Exchange Program - Bachelor in Computer Science

Aug. 2017 - Jun. 2018 | Innopolis, Russia

POLYTECHNIC UNIVERSITY OF CATALONIA | BACHELOR IN COMPUTER SCIENCE - COMPUTING

SPECIALIZATION

Sept. 2014 - Jun. 2018 | Barcelona, Spain

PUBLICATIONS

THESIS

• Victor Massagué Respall. "Quoridor agent using Monte Carlo Tree Search." Bachelor's thesis, Universitat Politècnica de Catalunya, 2018. [pdf | Github]

PREPRINT

• Victor Massagué Respall, Dmitry Devitt, and Roman Fedorenko. "Unmanned Aerial Vehicle Path Planning for Exploration Mapping.", 2020. [pdf | video]

CONFERENCE

- Victor Massagué Respall, Sami Sellami, and Ilya Afanasyev. "Implementation of Autonomous Visual Detection, Tracking and Landing for AR. Drone 2.0 Quadcopter." In The 12th International Conference on the Developments in eSystems Engineering, August 2019. [pdf | Github]
- Victor Massagué Respall, Joseph Alexander Brown, and Hamna Aslam. "Monte Carlo Tree Search for Quoridor." In 19th International Conference on Intelligent Games and Simulation, GAME-ON, September 2018. [pdf | Github]

EXPERIENCE

INNOPOLIS UNIVERSITY | Research Internship on UAV-based exploration of unknown terrain at the Autonomous Transport Systems Lab

June 2019 – July 2019 | Innopolis University, Russia

During the internship, a complete algorithm based on Next-Best-View planner was developed to explore, using the drone DJI M100, a bounded unknown area equipped with Velodyne LIDAR to build a 3D map online of the environment.

PROJECTS

HOME AUTOMATION MODEL | AN INTELLIGENT HOME MODEL WITH ARDUINO

May 2013 - Dec 2013 | Capellades, Spain

It consists in a model of 80x50cm of a house, applying different automatons for instance sensors for the lights of the garden when it is getting dark or an automated garage door when a car gets closer. The whole project is composed of two Arduino cells.

DOCUMENT SIMILARITY | ALGORITHM TO DETECT SIMILARITY BETWEEN DOCUMENTS

Sept 2016 - Dec 2016 | Barcelona, Spain

Detecting similarity between documents using hashing (Jaccard Similarity, Minhash Similarity and LSH Similarity). The project has been done with C++. [Github]

ROBOLANG | Parser for a robot programing language

Feb 2017 - June 2017 | Barcelona, Spain

Worked with two colleagues developing a parser for a robot and an implementation of a simulator to test it. We were provided with a NXT Lego Mindstorm. The project was done with Java and ANTLR3. [Github]

STANCE DETECTION IN CATALAN AND SPANISH TWEETS | SIMPLE TECHNIQUE FOR STANCE DETECTION USING INDEPENDENCE OF CATALONIA TWEETS

Nov 2017 | Innopolis, Russia

Stance is given an ongoing interaction, the way speakers place themselves in it. It is described a simple technique for stance detection using Independence of Catalonia tweets. It is used word2vec word embedding features for this detection. The system had produce a best result for Spanish tweets as compare to other participants in IberEval 2017. [pdf | Github]

SCHOLARSHIPS/AWARDS

FULL SCHOLARSHIP FOR GRADUATE STUDIES | INNOPOLIS UNIVERSITY

Aug 2018 - Jun 2020 | Innopolis, Russia

DIPLOMA FOR OUTSTANDING ACADEMIC ACHIEVEMENTS IN FALL SEMESTER 2019 | INNOPOLIS UNIVERSITY

Jan 2020 | Innopolis, Russia

SKILLS

TECHNICAL SKILLS

Proficient with:

Python • C++ • Matlab • LATEX

• Java • ROS • Git • Linux

Familiar with:

MIPS • C • Android • Arduino

Prolog • Haskell • Bash • Docker

SPOKEN & WRITTEN SKILLS

Native:

Catalan, Spanish

Advanced:

English

LINKS

Personal Website which contains detailed information of my professional career

Research Gate / Google Scholar which contains my publications and current research projects

Github which contains open-source codes of some of my projects