

Víctor Massagué Respal

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EDUCATION

POLYTECHNIC UNIVERSITY OF CATALONIA | UNDERGRADUATE IN COMPUTER SCIENCE - COMPUTING SPECIALIZATION

Sept. 2014 - Jun. 2018 | Barcelona, Spain

INNOPOLIS UNIVERSITY | EXCHANGE PROGRAM - UNDERGRADUATE IN COMPUTER SCIENCE

Aug. 2017 - Jun. 2018 | Innopolis, Russia

INNOPOLIS UNIVERSITY | MASTER IN ROBOTICS

Aug. 2018 - Expected June 2020 | Innopolis, Russia

PUBLICATIONS

MONTE CARLO TREE SEARCH FOR QUORIDOR | AI PLAYER FOR THE BOARD GAME QUORIDOR USING MONTE CARLO TREE SEARCH

September 2018 | Conference: GAME ON 2018 • Dundee, Scotland

This paper presents a preliminary study using Monte Carlo Tree Search (MCTS) upon the board game of Quoridor. Quoridor is an interesting game for expansion of player agents in MCTS due to having a mechanically simple rule set, however, Quoridor has a state-space complexity similar to Chess with a higher game-tree complexity. The system is shown to perform well against current existing methods, defeating a set of player agents drawn from an existing digital implementation as well as a previous method using a Genetic Algorithm (GA).

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 | PROJECT 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++.

ROBOLANG | PARSER FOR A ROBOT PROGRAMING LANGUAGE

Feb 2017 - June 2017 | Barcelona, Spain

Worked with two classmates 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.

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.

AUTONOMOUS COPTER LANDING ON MARKED MOVING PLATFORM | UAV TRACKING AND LANDING SYSTEM ON A MOVING UGV

Currently in development| Innopolis, Russia

This project presents the task of solving an autonomous copter landing on a marked moving platform. The copter needs to identify and track a marked moving platform using vision and global positioning. Parrot Ar Drone 2.0 is used for testing our system in the real world.

UAV-BASED EXPLORATION OF ROUGH TERRAIN | MASTER THESIS

Currently in development| Innopolis, Russia

Complete drone system with automatically takeoff and landing feature and autonomous path planning for exploration of unknown environment online.

SKILLS

PROGRAMMING

Over 5000 lines:

Java • C++ • Matlab • \LaTeX

Over 1000 lines:

Python • MIPS • C

Familiar:

Android • Arduino • Prolog • Haskell

LINKS

ResearchGate:// **Victor Massagué Respal**

Github:// **vicmassy**

LinkedIn:// **victor-massagué-respal**

SPOKEN & WRITTEN

Native:

Catalan, Spanish

Upper Intermediate:

English