Ricardo Sanchez- Education Matilla

Ph.D.



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About me -

I am a Ph.D. (expected in 2020) and research assistant in Electronic Engineering and Computer Science at Queen Mary University of London. Main current research interests are: machine learning, deep learning, computer vision, robotics, privacy, tracking

Skills -

Python

C and C++

MatLab

PyTorch

Keras

TensorFlow

OpenCV

₽TEX

Hard working*5 Flexible*5 Quick learning*5 Teamwork*5 Ambition*5 Leadership*5 Problem solving*5

(*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

2014

(exp.) 2020 Ph.D. in Elect. Eng. and Computer Science London (UK) Ph.D. thesis Object localisation, dimensions estimation and tracking at

Queen Mary University of London. Supervisor: Prof. Andrea Cavallaro

B.Sc. and M.Sc. Telecommunication Engineering Madrid (Spain) M.Sc. thesis Hierarchical detection of groups of people under occlusions at Universidad Autónoma de Madrid. Supervisor: Dr. José María Martínez Sánchez

Work experience

Since 2014 Research Assistant at OMUL

London (UK)

Computer Vision research in multiple international projects including COPCAMS project for multi-object tracking from visual data, the CORSMAL project for estimating the physical properties of objects for human-to-robot handover of unseen objects from multi-modal data.

Supervisor: Prof. Andrea Cavallaro

Senior Teacher Assistant in Data Mining at QMUL 2018-2019

Course for under- and post-graduate students. Topics: Regression • Classification • Clustering • Traditional and deep-based techniques. Supervisors: Prof. Ioannis Patras and Dr. Jesús Requena Carrión

2018 Intern at The Alan Turing Institute London (UK)

Deep learning for object tracking over occlusion. Supervisors: Dr.

Vaishak Belle, Dr. Chris Russell and Dr. Brooks Paige

2018 Teacher Assistant in Data Analytics at QMUL

Course for under- and post-graduate students. Topics: Graphs and networks • Machine Learning • Probability and Statistics. Supervisor:

Dr. Anthony Constantinou

2013-2014 Researcher at Universidad Autónoma de Madrid Madrid (Spain)

> Computer Vision researcher in the European EventVideo project for object detection from visual data. Object detection under occlusions from visual data. Supervisor: Dr. José María Martínez Sánchez

Selected publications

2020 Benchmark for Human-to-Robot Handovers of Unseen Containers with

Unknown Filling. R. Sanchez-Matilla, et al. In IEEE Transactions on

Robotics and Automation Letters - To appear

2020 Towards Robust Sensing for Autonomous Vehicles. A. Modas, R.

Sanchez-Matilla, P. Frossard, A. Cavallaro. In IEEE Transactions on

Signal Processing Magazine - To appear

2018 A predictor of moving objects for first-person vision. R Sanchez-

Matilla, A Cavallaro. In Proc. of IEEE Int. Conf. on Image Processing Scene privacy protection. C.Y. Li, A.S. Shamsabadi, R. Sanchez-

2019 Matilla, R. Mazzon, A. Cavallaro. In Proc. of IEEE Int. Conf. on Acous-

tics, Speech and Signal Processing

2018 Confidence intervals for tracking performance scores. R Sanchez-Matilla, A Cavallaro. In Proc. of IEEE Int. Conf. on Image Processing

2018 Tracking a moving sound source from a multi-rotor drone. L. Wang, R

Sanchez-Matilla, A Cavallaro. In Proc. of IEEE/RSJ Int. Conference

on Intelligent Robots and Systems

2017 Multi-Modal Localization and Enhancement of Multiple Sound Sources

from a Micro Aerial Vehicle. R. Sanchez-Matilla, L. Wang and A. Cav-

Sanchez-Matilla, F. Poiesi, A Cavallaro. In Proc. of the European Con-

allaro. In Proc. of the ACM on Multimedia Conference
Online multi-target tracking with strong and weak detections. R. 2016

ference on Computer Vision Workshop

Awards

2017, 2018 Post Graduate Research Funding by QMUL

2016 Best performing online tracker in MOT Challenge at ECCVw

2014 M.Sc. thesis mark 9.5/10