

Armando Pesenti Gritti

Curriculum Vitae

Work Experience

Sep 2015–Present **Research Engineer**, *KTP Associate*, Middlesex University and Caritas Anchor House.

Education

Mar 2016–Present **MSc by Research**, *Middlesex University*, "Machine Learning to Support Social Inclusion".

2011–2014 **MSc**, *Politecnico di Milano*, Computer Engineering.

2009–2011 **BSc**, *Politecnico di Milano*, Computer Engineering.

2000–2005 **Science High School diploma**, *Istituto di Istruzione Superiore D. M. Turollo*.

online courses **Machine Learning Engineer Nanodegree**, *Udacity*.

Machine Learning, *Stanford University, Coursera*.

Learning from Data, *California Institute of Technology, edX*.

Introduction to Artificial Intelligence, *Udacity*.

Artificial Intelligence for Robotics, *Udacity*.

Game Theory, *Stanford University, Coursera*.

Master thesis

title *People Detection and Tracking from a Small-footprint Mobile Ground Robot using an RGB-D Sensor*

supervisors Prof. Vincenzo Caglioti, Politecnico di Milano - Prof. Alessandro Giusti, IDSIA Dalle Molle Institute for Artificial Intelligence, Lugano

description Small-footprint mobile ground robots are by necessity equipped with sensors which lie close to the ground. Reliably detecting and tracking people from this unusual viewpoint is a challenging problem, whose solution is a key requirement for many applications involving human-robot interaction. We propose a robust solution for cluttered indoor environments, using an inexpensive RGB-D sensor.

Publications

title *On-the-fly Image Classification to Help Blind People*

authors D. K. Aljaseem, M. Heeny, A. Pesenti Gritti, F. Raimondi

conference International Conference on Intelligent Environments, London, 2016

title *CoSMed: A Confidentiality-Verified Social Media Platform*

authors T. Bauereis, A. Pesenti Gritti, A. Popescu, F. Raimondi

conference International Conference on Interactive Theorem Proving (ITP), 2016

title *Kinect-based People Detection and Tracking from Small-Footprint Ground Robots*

authors A. Pesenti Gritti, O. Tarabini, J. Guzzi, G.A. Di Caro, V. Caglioti, L.M. Gambardella, A. Giusti

conference International Conference on Intelligent Robots and Systems (IROS) Chicago, 2014

London – United Kingdom

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title *Perceiving People from a Low-Lying Viewpoint*
authors A. Pesenti Gritti, O. Tarabini, A. Giusti, J. Guzzi, G.A. Di Caro, V. Caglioti, L.M. Gambardella
conference Human Robot Interaction (HRI) Bielefeld, 2014, Video Session

Projects

- project Open source implementation of RGBD-based people detection and tracking from small-footprint mobile ground robots
link <http://bit.ly/perceivingpeople>
- project Drive Time - simple iOS application that displays how the travel time is influenced by traffic conditions
link <https://itunes.apple.com/us/app/drive-time-smart-travel!/id897607306?mt=8>
- project Hardware and software development of a small autonomous mobile robot, based on Arduino
link <http://youtu.be/WHwipTO1yeM>
- project MATLAB library implementing Neural Networks exploiting GPU with CUDA
link <https://github.com/arpesenti/neural-network-cuda>

Languages

Italian **Mother tongue**
English **Level C1**

2010 - IELTS certificate, 8/9

Computer skills

Operating Systems Mac OSX, Linux, Windows
Programming Languages Python, Java, Scala, C, MATLAB, Objective-C, Swift, Javascript, PHP
Versioning Tools Git, SVN
Markup Languages Latex, HTML
Database Management Systems MySQL