europass Curriculum vitae

PERSONAL INFORMATION

Chiara Talignani Landi

chiara.talignanilandi@unimore.it

Sex Female | Date of birth 14/02/1991 | Nationality Italian

WORK EXPERIENCE

May 2016–Oct 2016

Research Fellow in Robotics and Automation

University of Modena and Reggio Emilia (DISMI)

Development of impedance control techniques for industrial robots.

Walk-through programming techniques where the human operator becomes the teacher that physically guides the end effector through the desired positions.

Apr 2015–Apr 2016

Stage at ARSControl lab.

University of Modena and Reggio Emilia

Payload dynamics compensation for admittance-controlled industrial robots

Apr 2013–Sep 2013

Stage at AEB Robotics

Reggio Emilia (Italy)

Analysis, design and prototyping of the mechatronic part and software implementation for a 3D printer on a cartesian Alpha WRL robot.

EDUCATION AND TRAINING

Nov 2016–Present

Doctorate (PhD) in Industrial Innovation Engineering

University of Modena and Reggio Emilia (DISMI)

Research topics:

"Learning from demonstration" programming techniques that enable the robot to autonomously perform new tasks, without any need of human programming.

Human-robot physical interaction, to obtain safe and efficient cooperation tasks.

Related document(s): image.png

Oct 2013–Apr 2016

Master Degree in Mechatronic Engineering

University of Modena and Reggio Emilia

110/110 with honors

Thesis: "Dynamic compensation of a payload on admittance-controlled robots"

Sep 2010–Oct 2013

Bachelor Degree in Mechatronic Engineering

University of Modena and Reggio Emilia

Thesis: "Mechatronic prototyping of a 3D printer"

2010 **Scientific High School Graduation**

PERSONAL SKILLS

Mother tongue(s): Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	B2
French	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Digital competence: Programming Languages: C++, Matlab, VHDL

Software: OROCOS, ROS, Matlab, LUSAS, Xilinx, SolidWorks, Office, LaTeX, Cimatron

Driving licence: B

ADDITIONAL INFORMATION

Publications: "Tool Compensation in Walk-Through Programming for Admittance-Controlled Robots"
Chiara Talignani Landi, Federica Ferraguti, Cristian Secchi and Cesare Fantuzzi
IEEE Industrial Electronics Society (IECON), October 2016

Publications: "Tool Compensation and Force Password Identification on Admittance-Controlled Robots During Walk-Through Programming"
Chiara Talignani Landi, Federica Ferraguti, Cristian Secchi and Cesare Fantuzzi
International workshop on Human-Friendly Robotics (HFR), September 2016

Publications: "Compensation of Load Dynamics for Admittance Controlled Interactive Industrial Robots using a Quaternion-based Kalman Filter"
Saverio Farsoni, Chiara Talignani Landi, Federica Ferraguti, Cristian Secchi, Marcello Bonfè.
IEEE International Conference on Robotics and Automation (ICRA), May 2017

Publications: "Admittance Control Parameter Adaptation for Physical Human-Robot Interaction"
Chiara Talignani Landi, Federica Ferraguti, Lorenzo Sabattini, Cristian Secchi and Cesare Fantuzzi
IEEE International Conference on Robotics and Automation (ICRA), May 2017

ANNEXES

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that enables robots to **autonomously perform new tasks**, *without any need of human programming.*

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