

PERSONAL INFORMATION **Lorenzo Ricciardi Celsi**

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Sex Male | Nationality Italian

WORK EXPERIENCE

Since 01/03/2014

Systems Engineer

CRAT (Consortium for Research in Automation and Telecommunications),
Via G. Nicotera, 29, Rome (Italy)

Within the FP7 project T-NOVA (Network Functions as-a-service over Virtualised Infrastructures), he has carried out research activities covering the topics of Software-Defined Networking (SDN), Cloud Computing, Future Internet and Reinforcement Learning.

Within the MIUR project PLATINO (Platform for Innovative Services in Future Internet), he has led the development of a Reinforcement Learning based simulator for dynamic Class of Service assignment in a multi-agent network scenario.

Current projects: within the H2020 project BONVOYAGE (From Bilbao to Oslo, intermodal mobility solutions, interfaces and applications for people and goods, supported by an innovative communication network), he has participated in the development of the preliminary reference architecture foreseen by WP2 and has participated in the early developments of the Intelligent Transport software modules foreseen by WP4.

Since 01/01/2015

Consultant

ARES2T (Applied Research To Technologies s.r.l.),
Via Cristoforo Colombo 440, Rome (Italy)

Within the CreatiFI acceleration programme, he has participated in the development of the *snapp* app (<http://snapp.cc>), mainly with reference to the definition of the system architecture as well as to the analysis of the compatibility with the Future Internet framework.

PUBLICATIONS

L. Ricciardi Celsi, S. Battilotti, F. Cimorelli, C. Gori Giorgi, S. Monaco, M. Panfilii, V. Suraci, and F. Delli Priscoli, "A Q-Learning Based Approach to Quality of Experience Control in Cognitive Future Internet Networks," in *Proceedings of the 23rd Mediterranean Conference on Control and Automation (MED 2015)*, pp. 1045-1052, June 16-19, 2015, Torremolinos, Spain, DOI: 10.1109/MED.2015.7158895..

L. Ricciardi Celsi, R. Bonghi, S. Monaco, and D. Normand-Cyrot, "On the Exact Steering of Finite Sampled Nonlinear Dynamics with Input Delays," in *Proceedings of the 1st Conference on Modelling, Identification and Control of Nonlinear Systems (MICNON 2015), IFAC-PapersOnLine*, vol. 48, no. 11, pp. 674-679, June 24-26, 2015, Saint-Petersburg, Russia, DOI:10.1016/j.ifacol.2015.09.265.

S. Battilotti, S. Canale, F. Delli Priscoli, L. Fogliati, C. Gori Giorgi, F. Lisi, S. Monaco, L. Ricciardi Celsi, and V. Suraci, "A Dynamic Approach to Quality of Experience Control in Cognitive Future Internet Networks," poster appearing in *Proceedings of the 24th European Conference on Networks and Communications (EuCNC 2015)*, June 29 - July 2, 2015, Paris, France.

S. Battilotti, F. Delli Priscoli, C. Gori Giorgi, S. Monaco, M. Panfilii, A. Pietrabissa, L. Ricciardi Celsi, and V. Suraci, "A Multi-Agent Reinforcement Learning Based Approach to Quality of Experience Control in Future Internet Networks," in *Proceedings of the 34th Chinese Control Conference (CCC 2015)*, pp. 6495-6500, July 28-30, 2015, Hangzhou, China, DOI: 10.1109/ChiCC.2015.7260662.

L. Ricciardi Celsi, R. Bonghi, S. Monaco, and D. Normand-Cyrot, "Sampled-Data Stabilization Around the L_2 Translunar Libration Point," in *Proceedings of the 3rd IAA Conference on University Satellite Missions and CubeSat Workshop & International Workshop on Lean Satellite Standardization*, Roma, Italy, November 30 - December 5, 2015, in press.

F. Cimorelli, F. Delli Priscoli, A. Pietrabissa, L. Ricciardi Celsi, V. Suraci, and L. Zuccaro, "A Distributed Load Balancing Algorithm for the Control Plane in Software Defined Networking," in *Proceedings of the 24th Mediterranean Conference on Control and Automation (MED 2016)*, June 21-24, 2016, Athens, Greece, in press.

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EDUCATION AND TRAINING

04/2016 **European Embedded Control Institute (EECI), International Graduate School on Control**
Course on "Distributed Coordination of Multi-Agent Systems" (Prof. Wei Ren, University of California, Riverside) at Supélec, Gif-sur-Yvette, France

05/2015 **Complex Networks: Theory, Methods and Applications**
Lake Como School of Advanced Studies

2015 **"Abilitazione all'esercizio della Professione di Ingegnere Industriale"**
Sapienza, Università di Roma

11/2014 **Visiting PhD Student at Supélec (Ecole Supérieure d'Electricité), Laboratoire des Signaux et Systèmes (L2S)**
Gif-sur-Yvette, France

2014 (30th cycle) - currently enrolled **PhD Candidate in "Automatica, Bioengineering and Operations Research"**

Sapienza, Università di Roma
Winner of the PhD scholarship
Ranked #1 in the admission test for the Automatica curriculum

His research interests as a PhD Candidate are advanced control methodologies for multi-agent systems (such as reinforcement learning for autonomous decision making in multi-agent scenarios), nonlinear systems and control in general, as well as machine learning methodologies for BigData analytics.

2014 **"Abilitazione all'esercizio della Professione di Ingegnere dell'Informazione"**
Sapienza, Università di Roma

2011–2013 **Master of Science in Control Engineering ("Ingegneria dei Sistemi")**
Sapienza, Università di Roma
Final grade: 110 summa cum laude/110 ("con menzione alla carriera")

Curriculum Vitae

Average grade: 29.7/30

Thesis: "The Direct Lyapunov Method in the Analysis and Design of Time-Delay Systems"

Thesis Supervisor: Prof. Salvatore Monaco

During the master's degree, the following project works were also developed:

"Restructured Electrical Power Systems with particular focus on Market Balancing and Real-Time Pricing" under the supervision of Prof. Francesco Delli Priscoli and Prof. Alessandro Di Giorgio;

"Robust Control Design for Aircraft Lateral Dynamics using μ -synthesis" under the supervision of Prof. Leonardo Lanari.

2008–2011 Bachelor of Science in Electronic Engineering

Sapienza, Università di Roma

Final grade: 110 summa cum laude/110

Average grade: 28.7/30

Thesis: "Remote Guidance of the Humanoid Robot NAO using a Joystick"

Thesis Supervisor: Prof.ssa Marilena Vendittelli

During the bachelor's degree, the following project work was also developed:

"Design of an Electronic System for Counting Unoccupied Parking Spaces in a Car Park" under the supervision of Prof. Domenico Caputo.

2009 "Licenza triennale di Teoria e Solfeggio"

Conservatorio di Musica S. Cecilia, Roma

2003–2008 Classical High School

Liceo Ginnasio Statale Giulio Cesare, Roma

Final grade: 100/100

Author of more than 100 articles (mostly on computer science, movies and sports) for the school magazines "

2006 Certificate of Proficiency in English (CPE)

University of Cambridge ESOL Examinations

2005 Certificate in Advanced English (CAE)

University of Cambridge ESOL Examinations

2004 First Certificate in English (FCE)

University of Cambridge ESOL Examinations

2003 Original European Computer Driving Licence (ECDL)

Associazione Italiana per l'Informatica ed il Calcolo Automatico (AICA)

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Certificate of Proficiency in English (CPE) - CEFR Level C2					
French and Spanish	A2	A2	A2	A2	A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
[Common European Framework of Reference for Languages](#)

Communication / organisational / managerial skills

Friendly and sociable; attitude towards scientific problem-solving, leadership and team-work.

Computer skills

In-depth knowledge of Windows operating system and Mac OS X.
 Good knowledge of Linux operating system (mainly Ubuntu).
 Excellent knowledge of the main Office suites (Microsoft Office, iWork, OpenOffice).
 Excellent knowledge of LaTeX.
 In-depth knowledge of MATLAB language and MATLAB/SIMULINK environment.
 Good knowledge of ROS (Robot Operating System).
 Good knowledge of PSpice circuit simulator.
 Basic knowledge of Labview.
 Good knowledge of C, C++, Java, Python and Assembly programming languages.
 Good knowledge of AMPL and HTML.

Other skills

Passionate piano player; author of movie reviews for the online magazine <http://cogitoetvolo.it/>; enjoys running, swimming and playing tennis.

ADDITIONAL INFORMATION

Driving licence

Italy, Category B.

Rome, April 29th, 2016