

Curriculum Vitae of Alessandra Rossi

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Place of Birthday: Naples, Italy **Mobile Phone:** +44(0)7597724544

Date of Birth: 21 September 1981 **Website:** alessandrarossi.net

Address: E114, College Lane, **Nationality:** Italian
University of Hertfordshire, **Languages:** Italian, English
Hatfield, AL10 9AB, UK

Current position

01/10/2019 – now **Team Leader** of the Robocup team Bold Hearts, University of Hertfordshire, Hatfield, UK

01/02/2016 – now Marie Sklodowska-Curie ITN project SECURE (Safety Enables Cooperation in Uncertain Robotic Environments) **PhD fellow**, Computer Science, University of Hertfordshire, UK

01/12/2016 – now **Visiting Lecturer**, University of Hertfordshire, UK

Professional experience

01/11/2015-30/11/2015 **Researcher**, University of Naples Federico II
PRIN 2010-2011, Security Horizons Project. Study of existing technologies for creating, managing and allowing the communication between Web Services. Design a graphical interface to allow users to interact with agent to create and manage personalized contracts, specifying their preferences, and to request an auction service. Design and develop an extension for WS-Agreement to allow the creation of SLA contracts between agents according their own preferences.

01/04/2015-30/06/2015 **Researcher**, University of Naples Federico II
ORganization of Cultural HERitage for Smart Tourism and Real-time Accessibility (OR.C.HE.S.T.R.A) project. Testing support and user evaluation.

01/03/2015-31/03/2015 **Researcher**, University of Naples Federico II
Writing and publishing of a conference and journal paper as result of my thesis work.

2002 - 2012 **Web Software Engineer, Developer and DB Architect freelancer**, Self Employed, Naples.
2000 - 2011 **Tutor**, Self Employed, Naples
Topics: Microsoft Office Package, Technologies and standards for web development, Mathematics, Windows and Linux operating system administration, Programming and scripting languages (C, C++, PHP, Pascal, HTML, CSS, bash).

01/05/2010-31/07/2010 **Researcher**, ICAR-CNR, Naples
with Professor G. Schmid, Project "MIPHA: A Middleware Infrastructure for Pervasive HealthCare Applications". The purpose of the project – in an enterprise cloud view – was to define a security infrastructure, implementing an experimental prototype, an administration management, to allow members of a virtual community to access to any computer's applications, services and/or systems, regardless the location used and the based, preserving stability and security of system and data.

01/11/2007-31/03/2008 **Apprenticeship**, ICAR-CNR, Naples
with Professor G. Schmid, Study of (Open)Solaris authentication and authorization mechanisms. Design and development of a test-bed framework to integrate a new access control mechanism into the system. Publication of results to the international conference LISA'09.

Teaching Activities

2016-2019 Invigilation duties during students' exams, University of Hertfordshire

2019-2020 Lecturer for the following modules: 5WCM0011 - Operating Systems and Computer Networks, 4COM1037 Programming

2016-2020 Lecturer for the following modules: 6COM1032 User Experience, 7WCM0005 Contemporary Issues in Information Technology

2018-2019 Lecturer for the following modules: 5COM1055 Operating Systems and Networks

Supervision Activities

Principal Supervisor of:

- (2017) 5 BSc students;
- (2019 – semester B) 5 MSc students;
- (2019 – semester CA) 5 MSc students

Second Marker of:

- (2017) 5 BSc students;
- (2019 – semester B) 5 MSc students;
- (2019 – semester CA) 5 MSc students

Education

- 01/02/2016- 29/11/2019 (expected) **Marie Sklodowska-Curie ITN project SECURE (Safety Enables Cooperation in Uncertain Robotic Environments) PhD fellow and Early-Stage Researcher**, Computer Science, University of Hertfordshire, Hatfield, UK
Thesis title: *Investigating human perceptions of trust and social cues in robots for safe HRI in human-oriented environments*
Principal Supervisor: Professor Kerstin Dautenhahn
Co-Supervisors: Dr. Kheng Lee Koay, Dr. Michael L. Walters
- 24/07/2019 **Fellows of the Higher Education Academy**, Postgraduate Certificate in Learning and Teaching in Higher Education, UK
- 08/07/2017 **Associate Fellows of the Higher Education Academy**, Postgraduate Certificate in Learning and Teaching in Higher Education, UK
- 16/03/2015 **MSc, Computer Science**, University of Naples Federico II, Grade – 100/110.
Thesis title: *Human Multirobot Interaction in Robot and Group Selection Tasks*
Supervisor: Prof. Silvia Rossi. Advisor: Prof. Roberto Prevede
- 31/07/2009 **S3WEB – Expert in Systems Management and Web/Software Development**, University of Naples Parthenope and SAI – Sun Academic Initiative
Principal subjects and occupational skills covered: Web platform, Unix OS Administration, Web and operating system security, PHP, JAVA, SQL, PL/SQL, training for SUN Certificate Administrator for Solaris 10 and SUN Certificate JAVA Programmer, Information Systems Theory.
- 05/02/2009 **BSc, Computer Science**, University of Naples Federico II, Grade – 95/110.
Thesis: *Attributes Certificates-Based User Profiles in Unix-Like Systems: Setting Up User Environment*
Tutor: Prof. Goivanni Schmid. Advisor: Prof. Giuliano
- 1995-1998 **English Language**, Californian University, La Verne, in NATO's Offices in Naples
I studied English from level III to level V (the levels are VII + a master)

Publication in Journals

- (2020) **S.Rossi, A. Rossi and K. Dautenhahn**, The Secret Life of Robots: Perspectives and Challenges for a Social Robot's Behaviours During Non-Interactive Tasks. *International Journal of Social Robotics* (submitted)
- (2018) **A. Rossi, K. Dautenhahn, K., Koay and M.L. Walters**, The impact of peoples' personal dispositions and personalities on their trust of robots in an emergency scenario. *Paladyn, Journal of Behavioral Robotics*, 9(1), pp. 137-154
- (2016) **S. Rossi, F. Barile, A. Caso and A. Rossi**, Pre-trip Ratings and Social Networks User Behaviors for Recommendations in Touristic Web Portals, In *WEBIST2015 Selected and Revised Papers, Lecture Notes in Business Information Processing (LNBIP)*, Springer-Verlag.
- (2016) **A. Rossi, M. Staffa and S. Rossi**, Supervisory Control of Multiple Robots through Group Communication, Special Issue on Cognitive Agents and Robots for Human-Centred Systems, *IEEE Transactions on Cognitive and Developmental Systems (IEEE TCDS)*. 2016
- (2015) **F. Barile, A. Rossi, M. Staffa, C. Di Napoli and S. Rossi**, QoS-aware task distribution to a team of robots: a Health-care case study, *Intelligenza Artificiale (IOS Press)*, September 2015.

Publication in Conferences

- (2019) **A. Rossi, S. Moros, K. Dautenhahn, K.L. Koay and M.L. Walters**, Getting to know Kaspar: Effects of people's awareness of a robot's capabilities on their trust in the robot. *IEEE International Conference on Robot & Human Interactive Communication (RO-MAN)*, New Delhi, India
- (2019) **A. Rossi, F. Garcia, A. Cruz Maya, K. Dautenhahn, K. L. Koay, M. L. Walters and A. K. Pandey**. Investigating the Effects of Social Interactive Behaviours of a Robot on People's Trust During a Navigation Task.

In: Althoefer K., Konstantinova J., Zhang K. (eds) Towards Autonomous Robotic Systems. TAROS 2019. Lecture Notes in Computer Science, vol 11649. Springer, Cham

(2018) **A. Rossi, K. Dautenhahn, K. L. Koay and M. L. Walters**, Investigating human perception of trust and social cues in robots for safe HRI in home environments, International PhD Conference on Safe and Social Robotics (SSR-2018), Madrid, 29-30 September 2018

(2018) **A. Rossi, P. Holthaus, K. Dautenhahn, K. L. Koay, and M. L. Walters**. Getting to know Pepper: Effects of people's awareness of a robot's capabilities on their trust in the robot. In Proceedings of the 6th International Conference on Human-Agent Interaction (HAI '18). ACM, New York, NY, USA, 246-252

(2017) **A. Rossi, K. Dautenhahn, K. L. Koay, M. L. Walters**, How the Timing and Magnitude of Robot Errors Influence Peoples' Trust of Robots in an Emergency Scenario. In: Kheddar A. et al. (eds) Social Robotics. ICSR 2017. Lecture Notes in Computer Science, vol 10652. Springer, Cham

(2017) **A. Rossi, K. Dautenhahn, K. L. Koay, M. L. Walters**, Human Perceptions of the Severity of Domestic Robot Errors. In: Kheddar A. et al. (eds) Social Robotics. ICSR 2017. Lecture Notes in Computer Science, vol 10652. Springer, Cham

(2017) **B. Byrne, A. Rossi and M. Doolan**, Humanoid Robots attending Lectures - Research Informed Teaching, 9th International Conference on Education Technology and Computers (ICETC 2017), Barcelona, Spain. December 20-22, 2017

(2017) **B. Byrne and A. Rossi**, Research Informed Teaching - Pepper the Robot attends Lectures, 9th International Conference on Education and New Learning Technologies, pp. 2963, Barcelona, Spain, July 3-5, 2017.

(2017) **A. Rossi, K. Dautenhahn, K. L. Koay and J. Saunders**, Investigating human perceptions of trust in robots for safe HRI in home environments, Human-Robot Interaction Pioneers Workshop in conjunction with the 2017 ACM/IEEE International Conference on Human-Robot Interaction, March, 2017.

(2016) **S. Rossi, C. Di Napoli, F. Barile, A. Rossi, M. Staffa**, Negotiating and Executing Composite Tasks for QoS-aware Teams of Robots, in 14th International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS'16).

(2015) **A. Rossi, M. Staffa, A. Origlia and S. Rossi**, An Analysis of Perceptual Cues in Robot Group Selection Tasks, In Proceedings of The 24st International Symposium on Robot and Human Interactive Communication (RO-MAN2015), August 31-September 4, 2015, Kobe, Japan.

(2009) **A. Rossi, G. Schmid, L. Tamburo and M. Sommella**, An Infrastructure for simplifying the management of large distributed collaborative environments, LISA'09 – 23st Large Installation System Admin Conference, November 1-6 2009, Baltimore, MD, USA.

Publication in Workshops

(2019) **A. Rossi, K. Dautenhahn, K.L. Koay and M.L. Walters**, Evaluating the effects of an autonomous robot's social behaviours on people's trust. IEEE International Conference on Robot & Human Interactive Communication (RO-MAN)

(2019) **A. Rossi, K. Dautenhahn, K.L. Koay and M.L. Walters**, Investigating human perceptions of trust and social cues in robots for safe HRI, Personal robotics and secure human-robot collaboration Workshop, IEEE ICDL-EPIROB, Oslo, Norway

(2018) **A. Rossi, P. Holthaus, K. Dautenhahn, K.L. Koay and M.L. Walters**, Programming Pepper: What can you make a humanoid robot do?, 3rd Workshop on Behaviour Adaptation, Interaction and Learning for Assistive Robotics - IEEE-RO-MAN 2018, 27 - 31 of August 2018, Nanjing, China

(2015) **F. Barile, A. Rossi, M. Staffa, C. Di Napoli and S. Rossi**, A Market Mechanism for QoS-aware Multi-Robot Task Allocation, in Proceedings of the 16st Workshop From Objects to Agents WOA15, CEUR Workshop Proceedings (1382), pp. 129-134, 2015.

Technical Papers

(2019) **M. M. Scheunemann, S. G. van Dijk, R. Miko, D. Barry, G. M. Evans, A. Rossi, and D. Polani**. Bold Hearts Team Description for RoboCup 2019 (Humanoid Kid Size League), University of Hertfordshire, UK

(2017) **M. M. Scheunemann, S. G. van Dijk, A. Rossi, D. Barry, and D. Polani**. Bold Hearts Team Description RoboCup 2018 Kid Size. University of Hertfordshire, UK

(2011) **A. Rossi and G. Schmid**, DS2OS Deliverable B – Operating System Technologies, ICAR-CNR, Napoli, January 18, 2011. <http://www.na.icar.cnr.it/consulta.php?mode=due&id=49>

(2011) **A. Rossi and G. Schmid**, DS2OS Deliverable D – Running Environment Design, ICAR-CNR, Napoli, January 18, 2011. <http://www.na.icar.cnr.it/consulta.php?mode=due&id=51>

Organisation of Scientific Events

(2019 – ongoing) Registration Chair of IEEE International Conference on Robot & Human Interactive Communication (RO-MAN) 2020

(2019 - ongoing) Main organiser and Guest Editor of Special Issue “Trust, Acceptance and Social Cues in Robot Interaction (SCRITA)” of International Journal of Social Robotics

(2019) Main organiser of Special Session “Transparency and Trust in Human-Robot Interaction.” at IEEE RO-MAN 2019

(2019) Organisation team for SECURE and APRIL ITN Workshop on “Personal robotics and secure human-robot collaboration” as part of the IEEE ICDL-EPIROB conference, Oslo, Norway

(2019, 2018) Main organiser of Workshop "Trust, Acceptance and Social Cues in Robot Interaction (SCRITA)" held in conjunction with IEEE RO-MAN 2018 and 2019

(2018) Main organiser of Special Issue and Guest Editor “Trust, Acceptance and Social Cues in Robot Interaction” of Interaction Studies - Social Behaviour and Communication in Biological and Artificial Systems Journal.

(2018) Program Chair of 2018 International PhD Conference on Safe and Social Robotics (SSR 2018), Madrid, 29-30 September 2018.

(2015) Organizing Committee of the XVI Workshop "Dagli oggetti agli Agenti (WOA 2015)", June 2015, Naples

Commission of Trust

(2019) Review activities, IEEE International Conference on Systems, Man, and Cybernetics

(2019) Review activities, International Journal of Social Robotics (IJSR - SORO)

(2019) PC member, 11th International Conference on Social Robotics (ICSR 2019)

(2019) PC member, UMAP 2019 Adapted interaction with social robot Workshop

(2018) PC member, International Conference on Human-Agent Interaction - HAI

(2018) Review activities for Journal of Paediatric Nursing

(2018) Referee duties at the Humanoid Robot Application Challenge - Robot Magic, IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)

(2018) PC member, SSR 2018 conference

(2018) Review activities for 27th IEEE International Conference on Robot and Human Interactive Communication

(2016-2018) Referee duties for RoboCup Competitions of Humanoid League (kid and teen size)

(2017) Review activities, Springer Journals Intelligent Service Robotics

(2017) PC member, PAAMS 2017 Workshop on Agent Methodologies for Intelligent Robotics, (AMIRA)

(2016-2019) Review activities, Pattern Recognition Letters, International Association for Pattern Recognition,

(2016, 2017, 2018) PC member, IEEE RO-MAN (eds. 2016, 2017 and 2018) Workshop on Behavior Adaptation, Interaction and Learning for Assistive Robotics

(2016) Review activities, for the 14th International Conference on Practical Applications of Agents and Multi-Agent Systems, (PAAMS'16)

Award of Scientific Excellence

(2016) S. Rossi, C. Di Napoli, F. Barile, A. Rossi and M. Staffa. Negotiating and Executing Composite Tasks for QoS-Aware Teams of Robots.

Invited Presentations and Talks

(2019) Invited speaker at the workshop on Blockchain Technologies for Robotic Systems (BCT4ROS'2019), held in conjunction with IEEE RO-MAN 2019

(2019) Invited talk for Women in Tech Herts

(2018) Invited lecture for the module 4COM1036 Human Dimensions

Institutional Responsibility

(2019) Fire Warden, University of Hertfordshire, UK

Collaborations

12/11/2018 - 30/11/2018 Secondment at Fraunhofer Institute for Manufacturing Engineering and Automation IPA

01/07/2018- 31/07/2018 Secondment at SoftBank Robotics in Paris

Public outreach

Since 2016 when I started my PhD, I am regularly for talks about my research, opinions and experience, and demos with Softbank Pepper robot and RoboCup robots (Darwin OP and custom made by the team). The events are organised for the public, UH open and induction days, staff events, School of Computer Science and other UH Schools, visiting pupils and international visiting students. I participated at the event UK Robotic Week in two local schools (primary and secondary). The work “Getting to know Pepper: Effects of people's awareness of a

robot's capabilities on their trust in the robot.” presented at HAI2019 has been mentioned by the German online news “Heise”¹.

Affiliations

July 2018 - Member of IEEE

Aug 2017 - Member of the University of Hertfordshire ACM Student chapter, University of Hertfordshire

Nov 2016 - Member of Marie Curie Alumni Association (MCAA)

Apr 2016 - Member of RoboCup team Bold Hearts, University of Hertfordshire, Hatfield, UK.

Feb 2016 - Member of Adaptive Systems Research Group, University of Hertfordshire, Hatfield, UK.

Oct 2014 - Jan 2016 - Member of PRISCA (Projects of Intelligent Robotics and Advanced Cognitive Systems)) lab, University of Naples "Federico II", Naples, Italy.

¹ <https://www.heise.de/newsticker/meldung/Maschinen-Ethik-Vertraue-mir-ich-bin-ein-Roboter-4255726.html>