

**ANGELO CANGELOSI, PhD****E-mail** angelo.cangelosi@manchester.ac.uk**1. ACADEMIC QUALIFICATIONS**

- 1993-97 *Ph.D. in Psychology and Cognitive Science*, University of Genoa  
 1986-91 *Laurea (MSc) in Experimental Psychology*, University of Rome "La Sapienza" (110/110 *cum laude*)  
 1998 *UK Accreditation for Teaching in Higher Education (TLHE-SEDA Certificate)*  
 2011- *Fellow*, British Computer Society; Senior Member IEEE

**2. CURRENT POSITION AND EMPLOYER**

- 2018- *Professor of Machine Learning and Robotics*  
 Department of Computer Science, School of Engineering, University of Manchester (UK)  
 Main duties (full details in sections 7 and 8)  
  - *Research*: Leader of Cognitive Robotics Lab; Member of Machine Learning and Robotics Group
  - *Management*: Deputy Director of Research, REF Output Champion, Dept Computer Science
  - *Teaching*: Modules and project supervision in Machine Learning and Cognitive Robotics
 2018- *Turing Fellow*, Alan Turing Institute  
 2019- *Distinguished Visiting Fellow*, AIST-AIRC Artificial Intelligence Research Centre, Japan  
 2019- *Visiting Professor*: Hohai University, China; Milano Cattolica University, Italy  
 2019- *Associate Researcher*, ICAR Institute, CNR Italy

**3. EMPLOYMENT HISTORY**

- 1997-2018 *Plymouth University, UK. Professor of Artificial Intelligence and Cognition (2006-2018)*  
 School Research Lead - equivalent to Associate Head / Director of Research (2016-18)  
*Reader (2004-06), Principal Lecturer (2002-04), Senior Lecturer (1998-2002), Lecturer (1997-98)*  
 2015- *Visiting Professor*: University of Plymouth (2018-20); Università Cattolica Milano (2019-20); University of Manchester (2018); Waseda University Tokyo (2016); Sassari University (2017); Messina University (2015)  
 2010-18 *Consultant*, Scisys Ltd (Machine Learning for Space and Defence Industry)  
 2004-06 *Adjunct Researcher*, Institute of Cognitive Science & Technology, CNR National Research Council Rome  
 1996 *Visiting Scholar at University of Southampton*, Cognitive Science Centre (Prof. S. Harnad)  
 1994-95 *Visiting Scholar at the University of California at San Diego* (Prof. J. Elman; Prof. W. Kristan)  
 1993-97 *Teaching assistant* for courses of Cognitive Science and Psychology (University Genoa; Univ. Siena)  
 1992-97 *Research Collaborator*, Institute of Psychology, Italian National Research Council  
 1992-94 *Research Assistant at the Laboratory of Information Technologies*, Alenia-Finmeccanica, Rome

**4. SUMMARY OF PUBLICATIONS** (full list in Publications section)

Google H-index 42 / Scopus H-index 27 (Dec 2019) [Google Scholar](#)

Books	9
Journal publications	114
Refereed Conf. proceedings + Book chapters	157
Published abstracts of conference presentations	94
Journal Special Issues (guest editor)	9

**5. SUMMARY OF RESEARCH GRANTS** (full list below)

Principal Investigator: UK Research Councils	£ 2,467,780	(4 grants)
Principal Investigator: EU FP7-H2020	€ 16,150,045	(15 grants)
Principal Investigator: USA Air Force Lab	\$ 1,884,780	(7 grants)
Co-Investigator: UK Research Councils	£ 294,358	(2 grants)
Co-Investigator: EU FP7	€ 12,477,315	(2 grants)
Co-Investigator: ERDF	£ 1,736,140	(1 grant)
Other grants as PI-Col	£ 489,571	(19 grants)

**5a. RESEARCH GRANTS AND AWARDS**

- 2021-24 *EU H2020 Marie Skłodowska-Curie ETN*, **€606,345** “PERSEO: PErsonalized Robotics as SErvice Oriented applications”. Cangelosi PI. With S Rossi (U. Naples) as coordinator, and 8 other partners.
- 2020-23 *EU H2020 Widespread*, **€150,000** “TRAINCREASE: From Social Interaction to Abstract Concepts and Words”. Cangelosi PI. With J Raczaszke (U. Warsaw) as coordinator, and 2 other partners.
- 2021-23 *US Air Force Office of Science and Research, European Office of Aerospace Research and Development (AFSOR-EOARD)*, **\$255,000**. “Intention Reading and Trust in Heterogeneous Human-Robot Teaming” (Principal Investigator). A Cangelosi PI.
- 2019-23 *EU H2020 Marie Skłodowska-Curie ETN*, **€292,342** “e-LADDA: Early Language Development in the Digital Age”. Cangelosi PI. With M Vulchanova (NTNU Norway) as coordinator, and 9 other partners.
- 2018-24 *US Air Force Office of Science and Research, European Office of Aerospace Research and Development (AFSOR-EOARD)*, **\$826,000**. “THRIVE++: Trust in Human-Robot Interaction Via Embodiment and Theory of Mind” (Principal Investigator). A Cangelosi PI.
- 2018-20 *EU H2020 Marie Skłodowska-Curie European Fellowship*, **€195,454** “STRoNA: Developmental Context-driven Robot learning”. A. Cangelosi PI, Steve Furber co-I, Gi Hyun Lim as Fellow.
- 2018-22 *AIST-AIRC Japan*, **£267,401** (£818,521 total) AIRC-Manchester Collaboration. Cangelosi co-I, with S Ananiadou as PI.
- 2017-20 *Honda European Graduate Network*, **£93,176**, “DeCIFER: Developmental Collaborative Intelligence For Embodied Robots”. A. Cangelosi PI, G. Goerick (Honda HRI).
- 2017-20 *European Regional Development Fund – Cornwall Converge*, **£1,736,140** “EPIC: E-health Productivity and Innovation in Cornwall and the Isles of Scilly”. A. Cangelosi co-PI. With R Jones as PI-Coordinator, T Dahl, T Belpaeme etc., with ten strategic partners/stakeholders.
- 2017-19 *EU H2020 ICT RIA*, **€439,215** “MoveCare: Multiple-actors Virtual Empathic Caregiver for the Elder”. Cangelosi PI, with A Borghese (Milan University) as coordinator, and 12 other partners.
- 2016-19 *EU H2020 Marie Skłodowska-Curie EID European Industrial Doctorate*, **€1,345,614** (**€819,863** to Plymouth University) “APRIL: Applications of Personal Robotics for Interaction and Learning”. A. Cangelosi as Coordinator/PI. With SoftBank Robotics and 6 associate academic/industry partners
- 2016-19 *EU H2020 Marie Skłodowska-Curie ETN*, **€546,573** “DCOMM: Deictic Communication”. A. Cangelosi PI. With K Coventry (U. East Anglia) as ETN coordinator, and 8 other partners.
- 2016-18 *EU FP7 Marie Curie European Fellowship*, **€183,454** “CAREER-AID: Controlled Autonomous Robot for Early diagnosis and Rehabilitation of Autism and Intellectual Disability”. A. Cangelosi PI, Daniela Conti as Fellow (grant awarded but transferred to Sheffield Hallam University).
- 2015-18 *EU H2020 Marie Skłodowska-Curie ETN*, **€546,573** “SECURE: Safety Enables Cooperation in Uncertain Robotic Environments”. A. Cangelosi PI. With S Wermter (Hamburg) and 5 partners
- 2014-18 *US Air Force Office of Science and Research, European Office of Aerospace Research and Development (AFSOR-EOARD)*, **\$555,000**. “THRIVE: Trust in Human-Robot Interaction Via Embodiment” (Principal Investigator). A Cangelosi PI.
- 2014-16 *EU FP7 Marie Curie Intra European Fellowship*, **€231,283** “DeCoRo: Developmental Context-driven Robot learning”. A. Cangelosi PI, Martin Stoelen as Fellow.
- 2013-15 *EU FP7 Marie Curie Intra European Fellowship*, **€221,606** “ORATOR: Integrating Object Recognition and ActiOn for action sentence production and comprehension in a developmental humanoid Robot”. A. Cangelosi PI, C. Floccia and A. Cattani Co-Is, Beata Grzyb as Fellow.
- 2013-17 *EU FP7 Marie Curie Innovative Doctoral Program*, **€4,077,315** “COGNOVO: Cognitive Innovation”. A. Cangelosi Co-I (PI S. Denham, with Co-Is T Belpaeme, R Borisyuk, T Wennekers et al.)
- 2012-15 *UK EPSRC-BBSRC*, **£1,671,050** (**£1,202.384** at Plymouth) “BABEL: Bio-inspired Architecture for Brain Embodied Language”. A. Cangelosi PI and project coordinator, S. Furber (Manchester), F. Pulvermuller (Free University Berlin).
- 2012-15 *EU FP7 – EU FP7 – ICT Cognitive Systems & Robotics*, **€777,410** at Plymouth (€3,880,000 whole project) “Poeticon++: Robots need Language”. A. Cangelosi PI, K. Pastra (CSRI Greece, Project Coordinator), and 4 partners
- 2011-15 *EU FP7 – ICT Challenge 5 Wellbeing*, **€857,960** at Plymouth (€6,200,000 whole project) “RobotEra: Advanced Robotic systems and intelligent environments for the ageing population”. A. Cangelosi PI, P. Dario (SSSA Italy, Project Coordinator) and 8 partners

- 2010-14 *EU FP7 – ICT Cognitive Systems & Robotics*, **€8,400,000 (€1,376,860 at Plymouth)** Integrating Project “ALIZ-E: Adaptive Strategies for Sustainable Long-Term Social Interaction”. Co-investigator (T. Belpame PI). With 6 partners
- 2010 *US Air Force Lab (EOARD)*, **\$58,775**. Organisation of the Interdisciplinary Workshop on Socio-Cultural Phenomena in Linguistic Communication, Plymouth (Principal Investigator)
- 2009-13 *EU FP7 Marie Curie Initial Training Network*, **€3,492,830 (€832,473 at Plymouth)** “RobotDoC: Robotics for Development of Cognition”. A. Cangelosi PI-Coordinator, and 6 partners
- 2008-12 *EU FP7 – ICT Cognitive Systems & Robotics*, **€6,250,000 (€1,626,250 at Plymouth)** Integrating Project “ITALK: Integration and Transfer of Action and Language Knowledge in Robots”. A. Cangelosi PI-Coordinator coordinator, and 7 partners
- 2009-10 *European Space Agency*, **€24,466**. ARIADNA Project “Evolution in robotic islands: Optimising the design of autonomous robot controllers for navigation and exploration of unknown environments”. PI.
- 2009-13 *CONACyT Mexican Government*, **£60,000**. PhD Bursary for Salomon Ramirez-Contla for project on active vision in humanoid robots. PI.
- 2008-11 *RCUK Cognitive Systems Foresight*, **£809,132 (€507,722 at Plymouth)** “VALUE: Vision, Action, and Language Unified by Embodiment”. PI-Coordinator (with R. Ellis, Psychology Plymouth, and M. Fisher, Dundee). Funding from EPSRC, ESRC, and BBSRC.
- 2008 Award to the University of Plymouth of *Apple ARTS Programme*, **\$30,000**. (A. Cangelosi, Leader of University bid). Subsequently, award of 2008 ARTS grant to D. Marocco (Cangelosi as co-applicant)
- 2007-10 *US Air Force Lab, European Office of Aerospace Research and Development (EOARD)*, **\$149,446**. “Communication and distributed control in multi-agent systems” (Principal Investigator)
- 2005-06 *US Air Force Lab, European Office of Aerospace Research and Development (EOARD)*, **\$45,559**, “Integrating language and cognition in autonomous systems”. (PI)
- 2003-05 *EPSRC*, **£141,752** “Computational modelling of quantifiers: The relative influence of scalar and contextual factors” (with Coventry and Newstead) Evaluated “Tending to Outstanding” (4 out of 5)
- 2004-06 *DTI Knowledge Transfer Partnerships*, **£100,000**, Liquid Cargo Management Limited. (with P. Robinson, G. Bugmann) (grant awarded but not started)
- 2003-04 *EPSRC Novel Computation Cluster “SEEDS: Scalable, Evolvable, Emergent, Developmental Systems”* (**£60,000** - PI Dr. J. Miller, York University)
- 2003 *Italian Ministry of Education and University*, **€167,000** Anti “brain-drain” grant for returning to Italian academia (“Rientro dei Cervelli”) (grant awarded but not accepted)
- 2001-03 *EPSRC*, **£152,606** “A psychologically plausible model for the acquisition of spatial terms” (with K. Coventry), Evaluated “Tending to Outstanding” (4 out of 5)
- 2000-03 *EPSRC*, **£47,417** “Multi-agent systems for modelling language evolution” (PI), Evaluated “Tending to Outstanding” (4 out of 5)
- 2000-01 *Wellcome Trust SciArt Grant*, **£10,000** “STI: Search for Terrestrial Intelligence” (with M. Phillips)
- 1998-01 *Nuffield Foundation Award for New Lecturers*, **£3,000** “Language evolution in neural networks” (PI)

### 5b. OTHER GRANTS (TRAVEL, CONFERENCE, VISITS)

- 2019 *Turing Institute*, Organisation of Turing workshop on AI and Robotics for Social Care, **£6,000** (PI)
- 2009 *Nuffield Foundation*, Undergraduate Research Bursary for M. Butel, **£1,080** (PI)
- 2006-09 *US Air Force Lab, European Office of Aerospace Research and Development (EOARD)*, **\$11,719**, Travel grants for Fusion2006, KIMAS2007, IJCNN09 Conferences (PI) (3 grants)
- 2006-08 *euCognition Action Network*, **€21,300**. Grants for students/staff exchange visits (PI) (5 grants)
- 2006 *euCognition Action Network*, **€2,800**. Organisation of External Symbol Grounding Workshop (PI)
- 2006-09 *British Academy of Engineering*, **£1200**. Travel grant (PI) (two grants)
- 2005 *US Air Force Lab, European Office of Aerospace Research and Development (EOARD)*, **\$2643**, Travel grant for Keynote Speaker participation to KIMAS05 conference
- 2005 *Foundation Rosselli* (Turin) and Italian Society for Cognitive Science, **€1750**, Support for organisation of 6<sup>th</sup> International Conference on the Evolution of Language (PI)
- 2004 *BBSRC, EPSRC & British Academy*, **£11,240**, Support for organisation of 9<sup>th</sup> Neural Computation and Psychology Conference (PI). EPSRC evaluation “Outstanding” (5 out of 5).

## 6. RESEARCH SUPERVISION AND RESEARCH MANAGEMENT/LEADERSHIP

**Research Administration/Management**

- 2018- *Deputy Director of Research*, Department of Computer Science, University of Manchester  
 2018- *REF Output Champion*, Department of Computer Science, University of Manchester  
 2016-18 *School Research Lead (equivalent to Director / Associate Head Research)*, School of Computing, Electronics and Mathematics, Plymouth University  
 2008-18 *Founding Director*, Centre for Robotics and Neural Systems (CRNS), Plymouth University  
 2005-18 *School Coordinator* for RAE/REF submissions (UoA Computer Science & Informatics) Plymouth U.  
 2015-18 *Member of Faculty Research Committee*  
 2015-18 *Member of Faculty Strategy Group*  
 2013-15 *Member of Steering Committee*, Cognition Institute  
 2000-18 *Leader of Adaptive Behaviour & Cognition Lab*  
 2010-14 *Elected Faculty Representative* in University Research and Innovation Committee  
 2005-13 *School Representative* in Faculty Research Committee  
 2004-18 *Member of School Research Committee and Member of School Executive*

**Line Manager of Research Fellows / Lecturers:**

- 2019 *Dr Wenxuan Mou*: US ARL THRIVE++ project  
 2019 *Dr Daniel Hernandez*: H2020 MoveCare project  
 2018-20 *Dr Gi Hyun Lim*: Marie Curie Fellow (H2020 STRoNA project)

Past Supervisions (17): *Dr Mriganka Miswas, Dr Daniel Hernandez, Dr Junpei Zhong, Dr Martin Stoelen* (Marie Curie Fellow), *Dr Sao Mai Nguyen, Dr Ning Wang, Dr Beata Grzyb* (Marie Curie Fellow), *Dr Samantha Adams, Dr Frank Broz, Dr Alessandro Di Nuovo, Dr Anna-Lisa Vollmer* (Marie Curie Fellow), *Dr Anthony Morse, Dr Fabio Ruini, Dr Zoran Macura, Dr Davide Marocco, Dr Rohana Rajapakse, Dr Dan Joyce*

**Current PhD Students (12+13):**

- 2020- *First supervisor*: Francesco Semerano (PhD on HRI for flexible manufacturing)  
 2020- *First supervisor*: Luca Raffioli (ESR PhD on vision and robotics)  
 2020- *First supervisor*: Federico Tavella (PhD on vision and robotics)  
 2019- *First supervisor*: Hazel Taylor (PhD on explanatory AI for nuclear robotics)  
 2019- *First supervisor*: Ioanna Giorgi (PhD on cognitive robotics and language)  
 2019- *First supervisor*: Jacopo de Beradinis (PhD on music and machine learning)  
 2017- *First supervisor*: Mohammad Thabet (ESR PhD on human-robot interaction)  
 2017- *First supervisor*: Samuele Vinanzi (PhD on human-robot collaborative intelligence)  
 2016- *First supervisor*: Marta Romeo (PhD on robot companion for the elderly)  
 2016- *First supervisor*: Leszek Pecyna (PhD on number cognition in robots)  
 2016- *First supervisor*: Baris Serhan (ESR PhD cognitive robotics)  
 2013- *First supervisor*: Christopher Bishop (PhD on AI and space research) part-time  
*Second supervisor* (13): Abdullah Alhijaili, Chris Wallbridge, Virginia Fernandez De Tejada, François Foerster, Thomas Colin, Valerio Sperati  
 Splitsite IIT/UOM students: Giulia D'Angelo, Diego Ferigo, Serena Marchesi, Elena Rampone, Lorenzo Rapetti, Giuseppe L'Erario, Fabio Gergonti  
*Co-supervisor* (1): Mina Marmpena

**PhD Completions (37):**

- First supervisor* (16): Alexandre Antunes (2020), Gabriella Pizzuto (2020), Frederico Belmonte Klein (2020), Debora Zanatto (2019), Massimiliano Patacchiola (2018), Ricardo De Azambuja (2017), Federico Da Rol (2018), Kristsana Seepanomwan (2016), Martin Peniak (2014), Francesca Stramandinoli (2014), Marek Rucinski (2014), Fabio Ruini (2013), Vadim Tikhanoff (2009), Eduardo Coutinho (2009), Richard Holden (2005), Davide Marocco (2004)  
*Second supervisor* (15): Pontus Loviken (2019), Mohamed Abdulla (2019) Paolo Pagliuca (2019), Riccardo De Benedictis (2019), Jônata Tyska Carvalho (2017), James Kennedy (2017), Tomassino Ferrauto (2017), Giovanni Siri Carmantini (2017), Vieri Giuliano Santucci (2016), Salomon Martinez-Contla (2014), Dan Livingstone (2012), Gianluca Massera (2012), Mariagiovanna Mazzapioda (2012), Peter Bleys (2010), Michele Burigo (2009)  
*Co-supervisor* (6): Alex Smith (2017), Ilaria Torre (2017), Jared Somerville (2011), Isabella La Rovere (2006), Rohanna Rajapakse (2004), Georgios Banavas (2000)

**Affiliations to other Institutions:**

2019-22 *Visiting Professor*, Hohai University, China  
 2019-22 *Distinguished Visiting Fellow*, AIST-AIRC, Japan  
 2019-20 *Associate Researcher*, ICAR Institute, CNR Italy  
 2019 *Visiting Professor*, Università Cattolica Milan, Italy  
 2018- Turing Fellow, Alan Turing Institute  
 2018-20 *Visiting Professor*: University of Plymouth, UK  
 2018 *Visiting Professor*: University of Manchester, UK  
 2017 *Visiting Professor*: Sassari University, Italy  
 2016 *Visiting Professor*: Waseda University, Japan  
 2015 *Visiting Professor*: Messina University, Italy  
 2009- *External Faculty Member*, CITEC Centre for Excellence Cognitive Technologies, Bielefeld University  
 2016- *PhD Programme in Neuroscience*, University of Ferrara  
 2009-15 *PhD Programme in Psychology*, University of Genoa  
 2007 *Cognitive Neuroscience Institute*, UQAM University of Quebec at Montreal  
 2004-06 *Robotics and Artificial Life Lab*, Institute of Cognitive Sciences and Technology, CNR Rome  
 2001-03 *Plymouth Institute of Neuroscience (PION)*, University of Plymouth

#### **PhD External Examinations (40+ students):**

Bielefeld (2020); Muenster (2019); Bristol (2019); Waseda (2020, 2019, 2017); Lund (2018); Imperial College (2017, 2014); Aberystwyth (2017); New Bulgarian (2017); Czech Technical (2017); Birkbeck College (2017), Aristotle Thessaloniki (2016), SSSA Pisa (2015), Queensland Australia (2015, 2008), King College (2015, 2007), METU Ankara (2015), Padoa (3 students, 2015), ENSTA ParisTech (2014), INRIA-Bordeaux (2014); Genoa and IIT (2019, 2014; 7 students); Catania (2014; 6 students); Humboldt Berlin (2013), Hertfordshire (2006, 2013, 2015, 2016), Universitat Jaume I (2013), Orebro (2013), Exeter (2012), Middlesex (2012), Bielefeld (2011), De Montfort (2019, 2011), Southampton (2007), York (2006, 2008), Manchester (2006), Siena (5 PhD students, 2006), VUB Brussels (2005), NTNU (2019, 2005), Eastern Piedmont Vercelli (3 PhD students, 2005), Sussex (2003), Paisley (2003).

Internal Examiner: University of Manchester, 1 2020+; University of Plymouth, 10+ students 1999-2018

#### **Service and Management in Research Societies**

2014-15 Member of Nominations Committee, IEEE CIS  
 2014 Member of Awards Committee, IEEE CIS  
 2012-13 *Chair*, Autonomous Mental Developmental Technical Committee, IEEE CIS  
 2013- Member of the UK Computing Research Committee

#### **Miscellaneous**

2011 Member of BARA-AFR Academic Forum Robotics, British Automation and Robotics Association  
 2007 Management Committee Member, Autonomous Systems Network (SBAC)  
 2006 Inclusion in the 23<sup>rd</sup> (2006) Edition of *Who's Who in the World*  
 2006 Inclusion in the *Cambridge Blue Book* (2<sup>nd</sup> edition), International Biographical Centre  
 2006-12 Member of euCognition/EUCogII-EUCogIII (FP6-FP7 Coordinated Actions)  
 2004-06 Member of Society for Artificial Intelligence and Simulation of Behaviour (AISB)

## **7. TEACHING AND ACADEMIC MANAGEMENT/LEADERSHIP**

#### **Teaching Administration/Management**

2008-10 *Subject Group co-Chair* for Artificial Intelligence (AINT) teaching in the School of Computing and Mathematics (Leader of AINT group, 2003-2008), Plymouth University  
 2006-18 *Member* of School Executive, Plymouth University  
 2010-14 *Member* of University Research & Innovation Committee  
 2009- *Member* of Faculty Research Strategy Committee  
 2003-06 *Member* of School Teaching Management Group  
 1998-18 *Member* of various BSc/MSc Programme Committees (BSc Hons Computer Science, Computing, Computing, MediaLab Arts, Digital Arts & Technology, MSc Interactive Intelligent Systems)  
 2000-03 *Admission Tutor* for the BSc (Hons) Computing and Informatics, BSc (Hons) Computing and Neuroscience, BSc Computing

#### **External Examiner (Programmes, validations, REF)**

2019- *MSc Computational Neuroscience*, Goldsmith College  
 2018 Mock REF output evaluation, Oxford Brookes University (UoA11)

- 2017-19 Mock REF output evaluation, De Montfort University (UoA11)
- 2014 Mock REF output evaluation, Hertfordshire University (UoA11)
- 2014 *BSc Computing for Robotics*, Oxford Brookes University (validation)
- 2007-08 *MSc Intelligent Systems*, University of Sunderland

#### **Course Development and Validation**

- 2002 *Member of the Faculty Scrutiny Panel* for approval/review of UG and PG programmes
- 2001-02 *Chairman of the Programme Planning Committee* for the BSc (Hons) Computing and Neuroscience
- 2000-03 *Member of the Programme Planning Committee* for the MSc Digital Futures, MSc Interactive Intelligent Systems, BSc (Hons) Computer Science

#### **Other University services**

- 2017-18 *Member of School Panel* for Athena Application
- 2005 *Member of University Review Panel* for Athena-SWARM Charter Status (Silver) Application to support women's career in science, engineering and technology

#### **University Teaching: Module/Unit Leader**

- 2019- Cognitive Robotics (year 3), University of Manchester
- 2015-18 Computational Intelligence (year 3), Plymouth University
- 2015-18 Theory of Computation and Artificial Intelligence (year 2)
- 2015-16 Applied Artificial Intelligence (year 3)
- 2010-15 Computational Intelligence (year 2)
- 2005-15 Evolutionary Computation and Artificial Life (year 3)
- 1999-15 Introduction to Artificial Intelligence (year 2)
- 1998-09 Artificial Intelligence for Interactive Media (year 2)
- 1998-04 Cognition and Interaction (year 3)
- 1999-02 Advanced Evolutionary and Adaptive Computation (MSc)

#### **University Teaching: Modules shared with colleagues**

- 2018- Machine Learning and Statistics II, MSc Data Science, University of Manchester
- 1997-18 Plymouth University: Intelligent Systems (year 1), Topics in Advanced Intelligent Robotics (MSc), Computer Science Workshop, Interactive Intelligent Systems Workshop (MSc), Alternative Computing Paradigms (year 2), Multimedia Entertainment Systems (year 3), Multimedia Workshop II (year 1), Design for Virtual Reality (year 3)
- 1993-97 General Psychology, Developmental Psychology (Teaching Assistant, University of genoa), Cognitive Science (Teaching Assistant, University of Siena)

#### **Project/Thesis Supervisions**

- 2018- MSc and BSc (Hons) projects for MSc Advanced Computer Science and BSc (Hons) Computer Science, University of Manchester
- 1997-18 MSc projects for: MSc Robotics, MSc Computer Applications (previously also for MSc Computational Intelligence, MSc Interactive Intelligent Systems), Plymouth University
- 1997-18 BSc (Hons) projects, in BSc (Hons) Computing programmes (previously also for BSc Hons MediaLab Arts, BSc Hons Digital Arts & Technology, BSc Hons Computing Informatics, BSc Hons Multimedia Computing), Plymouth University

#### **Teaching in other Academic Institutions**

- 2019 *Cognitive Robotics*, Università Cattolica, Milan
- 2017 *Developmental Robotics and Cognitive Modelling*, University of Sassari
- 2015 Federica.unina.it MOOC, *Developmental Robotics*
- 2017 *Developmental Robotics and Cognitive Modelling*, University of Messina
- 2005 Introduction to Neural Networks, *Master in Cognitive Science*, University of Genoa
- 2004 Introduction to Programming, *MSc/Laurea in Arts, Music and Performance – Multimedia Specialisation (DAMS)*, University of Calabria
- 2004 Introduction to Neural Networks, PhD in Artificial Intelligence, University of Calabria

## **8. PEER ESTEEM INDICATORS**

#### **Management of Scientific Journals:**

- 2019- *Editor-in-Chief*, "IET Cognitive Computation and Systems" (IET)
- 2008- *Editor-in-Chief*, "Interaction Studies" (John Benjamin Publishing)

- 2015 *Editor-in-Chief*, “IEEE Transactions in Autonomous Mental Development” (IEEE)  
 2019- *Associate Editor*, “International Journal of AI and Consciousness” (World Scientific)  
 2016- *Associate Editor*, “IEEE Transactions in Cognitive and Developmental Systems” (IEEE)  
 2014 *Associate Editor*, “IEEE Computational Intelligence Magazine” (IEEE)  
 2014-16 *Associate Editor*, “Artificial Intelligence Review” (Springer)  
 2012-14 *Associate Editor*, “TopiCS in Cognitive Science” (CSS)  
 2011-14 *Associate Editor*, “IEEE Transactions in Autonomous Mental Development” (IEEE)  
 2011- *Associate Editor*, “International Journal of Signs and Semiotic Systems” (IGI Global)  
 2010- *Associate Editor*, “Cognitive Systems Research” (Elsevier)  
 2007- *Associate Editor*, “Connection Science” (Taylor & Francis)  
 2007- *Associate Editor*, “Frontiers in Neurorobotics” (Frontiers Foundation)  
 2011- *Editorial Board Member*, “Advances in Artificial Neural Systems” (Hindawi)  
 2006-17 *Editorial Board Member*, “Journal of Neurolinguistics” (Elsevier)  
 2009- *Editorial Board Member*, “Paladyn. Journal of Behavioral Robotics” (Versita-Springer)  
 2009- *Editorial Advisor*, “Neurobotics Magazine” (Dahlitz Media)  
 2006- *Editorial Consultant Member*, “International Journal of Advanced Robotic Systems”  
 2003-07 *Editorial Board Member*, “Interaction Studies” (John Benjamin Publishing)  
 2006-07 *Editorial Board Member*, “Connection Science” (Taylor & Francis)  
 2017 *Guest Editor*, “ACM Transactions on Interactive Intelligent Systems” (ACM)  
 2017 *Guest Editor*, “Frontiers in Neurorobotics” (Frontiers)  
 2013 *Guest Editor*, “Paladyn. Journal of Behavioral Robotics” (Versita-Springer)  
 2006 *Guest Editor*, “Mind and Society” (Springer) – special issue  
 2005 *Guest Editor*, “Connection Science” (Taylor & Francis) – special issue

#### **Management for Scientific Publishers:**

- 2010- *Editor*, Book Series on “Advances in Interaction Studies” (John Benjamin Publishing)  
 2010 *Scientific Committee*, Book Series on “Mente and Sistemi Cognitivi” (Aracne Editrice)

#### **International Conference and Workshop Organisation/Chair:**

- 2021 *General Chair*, IEEE ICDL 2021 Conference, Beijing, September 2020  
 2020 *Workshop Co-Chair*, NeurIPS2020 Workshop “BabyMind: How Babies Learn and How Machines can Imitate”, virtual, 5-11 December 2020  
 2020 *Publicity Chair*, IEEE ICDL-EPIROB 2020 Conference, Chile, September 2020  
 2020 *Workshop Co-Chair*, ICRA2020 Workshop on Human-Robot Handovers, Paris, May 2020  
 2020 *Workshop Co-Chair*, WCCI2020 Workshop on Artificial Intelligence for Improving Trustworthiness of Robots and Autonomous Systems, Glasgow, July 2020  
 2020 *Workshop Chair*, Turing UK-Italy Workshop on Robotics and AI Collaboration, Rome, March 2020  
 2020 *Workshop Co-Chair*, HRI2020 Workshop on Exploring Creative Contents in Social Robotics, Cambridge, March 2020  
 2019 *Workshop Chair*, Turing Workshop on Robotics and AI for Health and Social Care, Manchester, Oct 19  
 2019 *Symposium Co-Chair*, 2019 IEEE SSCI Symposium on Personal Robotics, Xiamen, December 2019  
 2019 *Robotics Liaison – Organising Committee*, IJCNN 2018 Conference, Budapest, July 2019  
 2019 *Workshop Co-Chair*, 2019 IEEE ICDL-EpiRob Workshop on Personal Robotics, Oslo, August 2019  
 2019 *Special Session Co-Chair*, 2019 IJCNN Session on Mind, Brain, and Cognitive Algorithms, Budapest  
 2019 *Co-Chair*, Workshop on Advances in Data Science, Manchester, May 2019  
 2019 *Co-Chair*, Shonan meeting on “Learning to communicate: Challenges in language learning by AI, robots and human”, Japan, February 18–22  
 2018 *PC Co-Chair*, CSIP Cognitive Systems and Information Processing Conf, Beijing, November 2018  
 2018 *Special Session Co-Chair*, IJCNN2018 Cognition and Development, Rio De Janeiro, July 2018  
 2018 *General Chair*, IEEE ICDL-EPIROB 2018 Conference, Tokyo, September 2018  
 2017 *Co-Chair*, AI4Health Workshop at 11th Intl. Conf. Health Informatics (HEALTHINF), Madeira, January  
 2017 *Bridging Chair*, IEEE ICDL-EPIROB 2017 Conference, Lisbon, September 2017  
 2017 *Special Session Co-Chair*, IJCNN 2017 Session on Cognition and Development, Anchorage, May 17  
 2016 *Honorary Chair*, HM2016 10<sup>th</sup> International Workshop on Hybrid Metaheuristics, Plymouth, 8-10 June  
 2016 *Special Session Co-Chair*, 2015 WCCI on Mind, Brain, and Cognitive Algorithms, Cape Town, Dec

- 2015 *Symposium Co-Chair*, 2015 IEEE SSCI Symposium on Computational Intelligence, Cognitive Algorithms, Mind, and Brain (CCMB), Cape Town, December 2015
- 2015 *Workshop Co-Organiser*, BMVA 2015 Session on Context Aware Cognitive Systems, London, 17 July
- 2015 *Special Session Co-Chair*, IJCNN 2015 Session on Cognition and Development, Ireland, July 2015
- 2014 *Symposium Co-Chair*, 2014 IEEE SSCI Symposium on Computational Intelligence, Cognitive Algorithms, Mind, and Brain (CCMB), Orlando, December 2014
- 2014 *Invited Session Co-Chair*, Advances in Intelligent Control for Cognitive Robotics, 2014 IEEE Multi-conference on Systems and Control, Antibes, October 2014
- 2014 *Workshop Co-Chair*, RO-MAN 2014: 23<sup>rd</sup> IEEE International Symposium on Robot and Human Interaction Communication (Edinburgh, August 2014)
- 2014 *Workshop Co-Chair*, Neurobiologically Inspired Robotics Workshop, ICRA2014: International Conference on Robotics and Automation (June 2014, Hong Kong)
- 2014 *Special Session Co-Chair*, IJCNN 2014 Mind, Brain, Development & Cognitive Algorithms, Beijing, July
- 2013 *General Co-Chair*, IEEE ICDL-EPIROB 2013 Conference, Osaka, August 2013
- 2012 *Conference Co-Chair*, Postgraduate Conference on Developmental Robotics and Development of Cognition, Lausanne, September 2012
- 2012 *Organising Chair*, EU Parliament Workshop on “European Research Leadership in Robotics” Brussels Altiero Spinelli Parliament Building, March 2012
- 2011 *Special Session Chair*, WCCI2012 Joint W. Bio-Inspired Developmental Mechanisms, Brisbane, June
- 2011 *General Co-Chair*, IEEE ICDL-EPIROB 2011 Conference, Frankfurt, 24-27 August 2011
- 2011 *Workshop Chair*, Spring School on Interdisciplinary Methods in Cognitive Robotics, Budapest, May 2-4
- 2010 *Workshop Chair*, SCL2010: Interdisciplinary W. on Society, Culture & Language, Plymouth, November
- 2010 *Conference Co-organiser*, EVOLANG-2010, 8th Intl. Conf. Evolution of Language (Netherlands, 2010)
- 2009 *Workshop Chair*, Workshop on Cognitive Modelling with Neural Network and Dynamic Logic, KIMAS-2009, St. Louis MA, October 11 2009)
- 2008 *Workshop Chair*, Intl. W. Integration of Action and Language Knowledge in Robots (Rome, Sept)
- 2008 *Conference Co-organiser*, EVOLANG-2008, 7<sup>th</sup> Intl. Conf. Evolution of Language (Barcelona, March)
- 2007 *Special Session Organiser*, KIMAS2007, Special Session on “Modeling Language” (Boston, May 3)
- 2006 *Conference Chair*, EVOLANG6, 6<sup>th</sup> Intl. Conference on the Evolution of Language (Rome, 12-15 April)
- 2006 *Special Session Chair*, IJCNN2006 Modeling Evolution and Acquisition of Language (Vancouver, July)
- 2006 *Workshop Co-organiser*, International Workshop on External Symbol Grounding (Plymouth, 3-4 July)
- 2005 *Symposium Chair*, 2<sup>nd</sup> International Workshop on the Emergence and Evolution of Linguistic Communication – an AISB05 Symposium (Hertfordshire, April 2005)
- 2004 *Conference Chair*, 9<sup>th</sup> Neural Computation and Psychology Workshop (Plymouth, Sept. 2004)

**Keynote/Invited Speaker to International conferences/workshops:**

- 2020 Invited Speaker, GDR Robotique (CNRS Robotics Meeting), France (online), 5 November 2020
- 2020 Invited Speaker, IEEE RO-MAN Workshop on Adaptive Vision for Human Robot Collaboration, Naples August 2020
- 2020 Keynote Speaker, World Conference on AI, Symposium on Cloud Robotics, China (online), July 2020
- 2020 Keynote Speaker, 26th Biennial Meeting of the International Society for the Study of Behavioural Development (ISSBD 2020). Rhodes, 23 June 2020 (online talk for keynote-only conference event)
- 2019 Invited Speaker, Nature Conference on AI & Robotics, Shenzhen, 2-3 September 2019
- 2019 Invited Speaker, Science Festival “FOCUS Live”. Milan, 21 November 2019
- 2018 Keynote Speaker, Workshop on AI and Cognitive Science. Tijuana, 14 November 2018
- 2018 Invited Speaker, Science Festival “FOCUS Live”. Milan, 9 November 2018
- 2018 Keynote Speaker, 7th Peripatetic Conference on Cognitive Systems Modelling, Poland 19 Oct 2018
- 2018 Invited Speaker, Bosch R&D, Renningen Germany, 10 October 2018
- 2018 Invited Speaker, Workshop on Towards Intelligent Social Robots, IROS2018, Madrid, 5 October
- 2018 Invited Speaker, W. on Crossmodal Learning for Intelligent Robotics, IROS2018, Madrid, 5 October
- 2018 Keynote Speaker, 6<sup>th</sup> Intl. Workshop on Artificial Intelligence and Cognition. Palermo, July 2018
- 2018 Invited Speaker, International Workshop on Developmental Dynamics. UEA Norwich, June 2018
- 2018 Invited Speaker, BioVisionAlexandria BVA2018 Conference, Alexandria Egypt, 21 April 2018
- 2018 Invited Speaker, Workshop on Social Robotics (Behavioi.ai). Lyon, March 2018
- 2017 Invited Speaker, International Symposium on Perception, Action, and Cognitive Systems. Seoul, Nov.
- 2017 Invited Speaker, Accademia Nazionale di Scienze Lettere ed Arti di Palermo, November 2017
- 2017 Invited Speaker, London Showcase Event on E-Health. London, October 2017



- 2017 Invited Speaker, Intrinsically Motivated Open-ended Learning Workshop. Rome, 4 October 2017
- 2017 Keynote Speaker, Rimadesio SpA, Milan, 28 September 2017
- 2017 Invited Speaker, CITEC Summer School, Bielefeld, 8 September 2017
- 2017 Invited Speaker, Congress of the Italian Developmental Psychology Association, Catania, 13 Sept
- 2017 Chief Guest, Conference on Energy and Power Systems, Madurai India, April 2017
- 2017 Invited Speaker, Workshop on Mind and Brain, Pavia, February 2017
- 2016 Invited Speaker, JSSR2016 2<sup>nd</sup> Joint UAE Symposium on Social Robotics. United Arab Emirates, Nov
- 2016 Invited Speaker, IROS 2016 W. Bio-inspired social robot learning in home scenarios. Korea, October
- 2016 Invited Speaker, Workshop on New technologies and the Value of Psychology (CNR-AIP). Rome, Sept
- 2016 Keynote Speaker (IET Lecture), TAROS16: 17<sup>th</sup> Towards Autonomous Robotic Systems. Sheffield, June
- 2016 Keynote Speaker, MODELACT Conference on Action, Language and Cognition, Rome, 6 June 2016
- 2016 Keynote Speaker, SETN 2016: 9th Hellenic Conf. on Artificial Intelligence. Thessaloniki, 18 May 2016
- 2016 Invited Speaker, Google, Workshop on Natural Language Understanding, London, 17 May 2016
- 2015 Keynote Speaker, IEEE ICTAI 2015, 27<sup>th</sup> Intl. Conf. Tools for Artificial Intelligence, Vietri sul Mare, Nov
- 2015 Keynote Speaker, AISC2015 Italian Association of Cognitive Science Conference, Genoa, Dec 2015
- 2015 Invited Speaker, Symposium on Action, Language and Space, ICSC 2015, Rome, September 2014
- 2015 Invited Speaker, ICAR2015 Workshop on Robot Learning, Istanbul, 31 July 2015
- 2015 Invited Speaker, ICRA2015 Workshop on Cognitive Robotics as Interdisciplinary Science, Seattle, May
- 2015 Invited Speaker, Workshop on Robot Learning, Padova, April 2015
- 2014 Invited Speaker, ShanghAI lecture series, 20 November 2014 (shanghailectures.org)
- 2014 Keynote Speaker, BMVA Workshop on "Vision for language and manipulation", London 11 July 2014
- 2014 Invited Speaker, ICRA2014 3<sup>rd</sup> iCub and Friends Workshop, Hong Kong, 5 June 2014
- 2014 Invited Speaker, ICRA2014 Neurobiologically Inspired Robotics Workshop, Hong Kong, 5 June 2014
- 2014 Invited Speaker, ROBOFORUM, Moscow, 17-18 May 2014
- 2014 Keynote, AISC2014 Midterm Conference of the Italian Association of Cognitive Science, Enna, April
- 2014 Keynote Speaker, 3<sup>rd</sup> Intl Symposium New Frontiers in Human-Robot Interaction, AISB50, London April
- 2014 Keynote Speaker, HRI2014 W. Cognitive Architectures for Human-Robot Interaction, Bielefeld, March
- 2013 Keynote Speaker, IROS 2013 Workshop on Developmental Social Robotics (DevSoR) Tokyo, Nov
- 2013 Invited Speaker, Shonan Meeting on Social Cognitive Robotics, Japan, 10-14 November 2013
- 2013 Invited Speaker, ShanghAI lecture series, 31 October 2013 (shanghailectures.org)
- 2013 Invited Speaker, eXperience Summer School, Majorca, 3 October 2013
- 2013 Keynote Speaker, AVSP2013, 12th Intl. Conf. Auditory-Visual Speech Processing, Annecy, August
- 2013 Keynote Speaker, SMLC-2013, Synthetic Modeling of Life and Cognition Workshop, Bergamo, Sept.
- 2013 Invited Speaker, Bilingual Mind & Bilingual machine Summer School, Plymouth, 24-28 June 2013
- 2013 Invited Speaker, ICRA2013 W. on Bootstrapping Structural Knowledge Karlsruhe, Germany, May
- 2012 Keynote Speaker, AGI-2012, 5th Artificial General Intelligence Conference, Oxford, 8-9 Dec 2012
- 2012 Keynote Speaker, PPSN-2012 12<sup>th</sup> Intl. Conf. Parallel Problem Solving From Nature, Taormina, Sept
- 2012 Invited Speaker, Cognitive Reading Workshop, Lund, 3-5 March 2012
- 2011 Keynote speaker, HRI2011 6<sup>th</sup> International Conference on Human-Robot Interaction, Lausanne, 6-9 March
- 2011 IET Lecture (Institute of Engineering and Technology), Plymouth, 1 November 2011
- 2010 Keynote speaker, NAIS-2010 Norwegian Artificial Intelligence Symposium, Norway, 22 November 2010
- 2010 Keynote speaker, EpiRob-2010, the 10<sup>th</sup> International Conference on Epigenetic Robotics, Sweden, Nov.
- 2010 Invited Speaker, Research Leadership Course, Northumbria University at Newcastle, 10 June 2010
- 2010 Invited Speaker, IET Humanoid Robotics Symposium, London, 8 March 2010
- 2009 Invited Speaker, POETICON Workshop on Grounding, Athens, 5 December 2009
- 2009 IET Lecture (Institute of Engineering and Technology), Plymouth, 18 October 2009
- 2009 Keynote speaker, Annual Meeting of the Brazilian Cognitive Society, Campinas Brazil, 2-4 Sept 2009
- 2009 Keynote speaker, VC Research and Enterprise Conference, University of Plymouth, 29 April 2009
- 2008 Invited Speaker, CITEC Anniversary Workshop, University of Bielefeld, November 19 2008
- 2008 Invited Speaker, UK NanoForum2008, University of Bristol, October 29-30 2008
- 2008 Doctoral Programme, Lectures on AI and Robotics, Hanse-WissenschaftsKolleg, Delmenhorst, Oct
- 2008 Invited Speaker, Summer Institute of "Mind & Society", Montreal June 27-July 6 2008
- 2007 ICCS07 7<sup>th</sup> Intl. Conf. on Complex Systems, Special Session on "Language and Complexity", Boston
- 2006 Invited Speaker, Science Festival, Workshop "Language Acquisition in Robots and Children", Genoa
- 2006 Invited Speaker, Workshop on Language and Cognition, planning meeting for research priorities in the EU Framework VII (IST-Cognitive Systems) (Luxemburg)

- 2005 Keynote, IEEE Intl. Conf. Integration of Knowledge Intensive Multi-Agent Systems: KIMAS'05 (Boston)
- 2005 Summer School on Neural Network Models of Perception, Action and Embodied Knowledge, Bologna
- 2005 Invited Speaker, Conference on Cognitive Dynamics and the Language Sciences (Cambridge)
- 2005 CiE2005 Conf. Computability in Europe, Session: Epistemology & Methodology of Computing, NL
- 2003 Symposium on Evolvability, Genetics & Development in Natural & Constructed Systems, Hertfordshire
- 2003 International Workshop on Learning and Concept Formation (Lund, Sweden)
- 2002 Invited, TENNET XIII: Annual Meeting Theoretical & Experimental Neuropsychology (Montreal)
- 2002 Invited Speaker, Intl. Workshop on Language and Motor Integration (Edinburgh)
- 2002 Invited Speaker, ESF Workshop on the Neurobiology of Communication (Cambridge)
- 2000 Invited Speaker, Intl. Workshop on Evolutionary Computation and Cognitive Science (Melbourne)
- 1997 Invited Speaker, International Workshop on the Evolution of Syntax (Budapest)
- 1997 Invited Speaker, Workshop on Models of Learning (Pavia)

**Programme/Scientific Committees in International Conferences/Workshops:**

- 2020 cAESAR2020, WIVACE, WCCI-IJCNN, TAROS, ICDL-EpiRob, CD-MAKE
- 2019 ICDL-EpiRob, LOD, WIVACE, IJCAI, ICINCO, L2A2, CLiC-it
- 2018 CogSci2018, ICRAI, ICANN, ICINCO WIVACE, BIBE2018, RTSI, LOD, LANAS, ICICAR, APA TMS (Senior Program Committee), GECCO, BAILAR
- 2017 ICTAI (Area Chair), ALIFE 6, CLiC-it, AIC, ICANN, MOD, ECAL, WIVACE, GLU2017 CogSci, INTERSPEECH, GECCO, ICINCO, IJCNN, Robotic Computing, HRI, ICMV
- 2016 CL4LC-COLING, ICDL-EpiRob, GECCO, SAB, AIC, ICINCO, ALIFE XV, HIS, Neuroinformatics, ICTAI
- 2015 TAROS, AIC, Protolang4, WIVACE, ICSR, ICAR, GECCO, CEC
- 2014 SocialCom, ICDL-EpiRob, ICSR, AIC, ICANN, SAB, WIVACE, SocialCom, GECCO, CogSci, CEC, ALIFE 14
- 2013 NaBIC2013, SMLC, SocialCom, RO-MAN, ECAL, CEC, GECCO, CogSci
- 2012 SAB, ECTA, ICSI, ICANN, SocialComp, ESLP, CogSci
- 2011 NaBIC, SocialComp, CEC, GECCO, ECAL, IJCA, RO-MAN, CogSci, ALIFE, SSCI- CCMB
- 2010 EpiRob, ICML, ICDL, IJCNN, CEC, GECCO, SAB
- 2009 EpiRob, CEC, ECAL, ALIFE IX, ICEC
- 2008 GECCO, WCC, SBIA, AKRR, SAB, EHSWEC, WIVACE
- 2007 WIMTC, ALIFE VII, ICDL, ECM\_MAI, ECAL, ACAL, WIVACE, GECCO, CIDM
- 2006 ICDL, ICCS, SAB, EELC, KES, AISC
- 2005 CogSci, IJCAI
- 2005 AKRR, GECCO, SMAS, WIVACE
- 2004 ALIFE IX, EVOLANG5, GECCO
- 2003 WIVACE, ECAL03
- 2002 EVOLANG4, ALIFE VIII
- 2000 GECCO, ALIFE VII
- 1999 ECAL, GECCO

**Referee for international journals**

- 1997- *Behavioral and Brain Sciences, Cognitive Science, Artificial Intelligence, PLoS ONE, Connection Science, Adaptive Behavior, Artificial Life, Brain & Language, Trends in Cognitive Science, IEEE Transactions in Evolutionary Computation, IEEE Transactions on Systems Man and Cybernetics B, IEEE Transaction on Robotics, Autonomous Robots, Evolutionary Computation, Neural Networks, European Physical Journal B, Genetic Programming and Evolvable Machines, Neurocomputing, Evolutionary Intelligence, Circuits Systems and Signal Processing, Neural Processing Letters, Cognitive Systems Research, Reviews for Life Sciences, Physics of Life Reviews, ACM Crossroad, Giornale Italiano di Psicologia, Rivista di Psicologia*

**Referee for research grants**

- 2002- EPSRC Engineering and Physical Sciences Research Council, Reviewer College (also Large Grant Panel, 2008; Engineering Panel member 2014, 2016)
- 2002- ESRC Economic and Social Research Council (also Large Grant Panel member in 2007-08)
- 2013 NIHR-CCF National Institute for Health Research Central Commissioning Facility (UK)
- 2011- MRC Medical Research Council
- 2009- BBSRC Biology and Biotechnology Sciences Research Council
- 2007- ESF European Science Foundation (College of Reviewer)
- 2005 NSF-USA National Science Foundation

2005- *European Union* (FP7, H2020)

2003- *The Nuffield Foundation*

*Other international funders:* Latvia Council of Chair, JSC National Centre of Science and Technology Evaluation, Kazakhstan, Cyprus Research Promotion Foundation, Canada Chair programme, CHIST-ERA (ANR) Panel Member, New Zealand Ministry of Business, Innovation & Employment, WWTF Vienna Science and Technology Fund Austria, United Arab Emirates Research Grants, Croatian Ministry of Education (Unity through knowledge Fund), Dutch Research Council (Technology Foundation STW)

**Invited Speaker for seminars:**

UK: Bath, Birkbeck, Birmingham, Edinburgh, Exeter, De Montfort, Glasgow, Heriot Watt, Leeds, Liverpool, Manchester, Middlesex, Sheffield, Southampton, Sussex, Surrey, Sunderland, York, ARM Cambridge

Overseas: Stanford, Harvard, MIT, University of Southern California, Osaka, Waseda University, Rutgers University, Maryland College Park, University of California at San Diego, NTNU Trondheim, RUG Groningen, Taiwan TNUST Taipei, Orebro, Skovde, Bilgi Istanbul, METU Ankara, Autónoma del Estado de Morelos Mexico, Genova, Pavia, Modena e Reggio Emilia, Calabria, Palermo, Catania, ISTC-CNR Rome, Enna Kore, Naples Federico II, Sassari, Messina, Salento Lecce, Bari, Cagliari, Siena, Cattolica Milan

**Industrial collaborations:**

Honda Research Institute (Europe, Japan), SoftBank/Aldebaran Robotics, SciSys UK, Telerobot SpA Italy, Germany; TMSUK Japan

**Media Coverage (partial list)**

- 2018 Scientific American, Cover page and article on “Self Taught Robots” (March issue)
- 2017 Interview and robot experiments in BBC documentary “The Hyper Evolution of Robots”
- 2016 Robot experiments featured in US PBS Documentary “The Brain, by David Eagleman”
- 2016 Robot experiments featured in docu-film “The Genius of George Boole”.
- 2011 *ERCIM News*, 84, European Research Consortium for Informatics and Mathematics. Article on “Evolving Autonomous Mars Rovers” by A. Cangelosi, D. Izzo, K. Ampatzis (January 2011)
- 2009 *ITV News* on Schools Robot Competition (27/11/2009)
- 2009 Quotation of my interview at the article on the iCub robot in the journal *Nature*.
- 2008 *Wide coverage of ITALK project launch* in UK media (e.g. BBC News, Telegraph, Times).
- 2006 *Italian RAI Radio 3*, live interview on Talking Robots research, 30/10/06
- 2006 *BBC Radio Devon*, live interview on Talking Robots research, 31/8/06
- 2006 *New Scientist* on-line, “Virtual bots teach each other using wordplay”, 2/8/2006, by Tom Simonite
- 2005 *AISB Quarterly*, “Conference Report on the 9th Neural Computation and Psychology Conference: Modelling Language, Cognition and Action”. Article by Cangelosi A., Bugmann G., Borisyuk R.
- 2003 *Flash Informatique*, EPFL Lausanne magazine, “Le Martien, les champignons et les réseaux de neurones”, pp. 15-20 (spécial été: Hippocrate, le gène et la puce). Article by M. Coulmance
- 2002 *Careers Adviser Magazine*, The Independent Newspaper, “Computing meets neuroscience: The UK prepares for new challenges ahead”, 6(4), p. 26, article by A. Cangelosi and M. Denham.

## PUBLICATIONS OF ANGELO CANGELOSI

## Books

1. Cangelosi A., Asada M. (Eds.) (2021 – in press). *Cognitive Robotics*. Cambridge, MA: MIT Press
2. Cangelosi A., Di Nuovo S. (2017). *La mente Simulata (The Simulated Mind)*. Firenze: Giunti (ebook)
3. Blesa M.J., Blum C., Cangelosi A., Cutello V., Di Nuovo A., Pavone M., Talbi E. (Eds.) (2016). *Hybrid Metaheuristics: Proceedings of 10th International Workshop, HM 2016 (Lecture Notes in Computer Science 9668)*, Springer
4. Cangelosi A., Schlesinger M. (2015). *Developmental Robotics: From Babies to Robots*. Cambridge, MA: MIT Press (Chinese edition 2017<sup>1</sup> Japanese edition 2019<sup>2</sup>)
5. Di Nuovo S, Cangelosi A (Eds) (2015). *Vita Naturale, Vita Artificiale (Natural Life, Artificial Life)*. Milano, Franco Angeli.
6. Lyon C., Nehaniv C.L., Cangelosi A. (Eds.) (2007). *Emergence of Communication and Language*. London: Springer.
7. Cangelosi A., Smith A, Smith K. (Eds.) (2006). *The Evolution of Language: Proceedings of the 6th International Conference on the Evolution of Language*. Singapore: World Scientific.
8. Cangelosi A., Bugmann G. & Borisyuk R. (Eds.) (2005). *Modelling Language, Cognition and Action: Proceedings of the 9th Neural Computation and Psychology Workshop*. (Neural Processing Series, vol. 16). Singapore: World Scientific.
9. Cangelosi A. & Parisi D. (Eds.) (2002). *Simulating the Evolution of Language*. London: Springer<sup>3</sup>.

## JOURNALS

10. De Berardinis J., Coutinho E., Cangelosi A. (2021). Unveiling the hierarchical structure of music by multi-resolution community detection. *Transactions of the International Society for Music Information Retrieval*
11. Patacchiola M., Cangelosi A. (2021). A developmental cognitive architecture for trust and theory of mind in humanoid robots. *IEEE Transactions on Cybernetics*.
12. Zanatto D., Patacchiola M., Goslin J., Cangelosi A. (in press). Investigating cooperation with robotic peers. *PLoS ONE*.
13. Di Dio C., Manzi F., Peretti G., Cangelosi A., Harris P.L., Massaro D., Marchetti A. (in press). Shall I trust you? From child-robot interaction to trusting relationships. *Frontiers in Psychology*
14. Esposito M., Masala G. L., Golosio B., Cangelosi A. Editorial of Research Topic Language Representation and Learning in Cognitive and Artificial Intelligence Systems. *Frontiers in Robotics*.
15. Di Dio C., Manzi F., Peretti G., Cangelosi A., Harris P.L., Massaro D., Marchetti A. (in press). What children think of the mind of a robot. *Sistemi Intelligenti* (in Italian)
16. Zhong J., Ogata T., Cangelosi A., Yang C. (2019). Disentanglement in the conceptual space during sensorimotor interaction. *IET Cognitive Computation and Systems*. [10.1049/ccs.2019.0007](https://doi.org/10.1049/ccs.2019.0007)
17. Romeo M., Jones R., Biswas M., Cangelosi A (2019). Are older people any different from younger people in the way they want to interact with robots? Scenario based survey. *Journal on Multimodal User Interfaces*.
18. Grzyb B., Nagai Y., Asada M., Cattani A., Floccia C., Cangelosi A. (2019). Children's scale errors are a natural consequence of learning to associate objects with actions: a computational model *Developmental Science*, 22:4, e12777 [10.1111/desc.12777](https://doi.org/10.1111/desc.12777)
19. Wang N., Di Nuovo A., Cangelosi A., Jones R. (2019). Temporal patterns in multi-modal social interaction between elderly users and service robot. *Interaction Studies*, 20(1), 4-24 [10.1075/is.18042.wan](https://doi.org/10.1075/is.18042.wan)
20. Zanatto D., Patacchiola M., Goslin J., Cangelosi A. (2019). Generalisation of anthropomorphic stereotype. *International Journal of Social Robotics*. [10.1007/s12369-019-00549-4](https://doi.org/10.1007/s12369-019-00549-4)
21. Horst J., Twomey K., Nurse R. & Cangelosi A., (2019). When object color is a red herring: Extraneous perceptual information hinders word learning via referent selection. *IEEE Transactions on Cognitive and Developmental Systems*. [10.1109/TCDS.2019.2894507](https://doi.org/10.1109/TCDS.2019.2894507)

<sup>1</sup> Also published in Chinese (2017, China Machine Press/Huazhang Graphics & Information Co. Ltd) and in Japanese (2019, Fukumura Shuppan Inc.)

<sup>2</sup> Book review by L. Meeden in *Genetic Programming and Evolvable Machine* journal, 2015

<sup>3</sup> Book review by A. Wray in *Journal of Linguistics*, 39: 395-400, 2003

22. Chella A., Cangelosi A., Metta G., Bringsjord S. (2019). Editorial: Consciousness in Humanoid Robots. *Frontiers in Robotics and Artificial Intelligence*, 6, 17 [10.3389/frobt.2019.00017](https://doi.org/10.3389/frobt.2019.00017)
23. Vinanzi S., Patacchiola M., Chella A., Cangelosi A. (2019). Would a robot trust you? Developmental robotics model of trust and theory of mind. *Philosophical Transactions of the Royal Society B.*, 374 [doi.org/10.1098/rstb.2018.0032](https://doi.org/10.1098/rstb.2018.0032)
24. Knott B., Gratch J., Cangelosi A., Caverlee J. (2018). Editorial of Special Issue on Trust and Influence in Intelligent Human-Machine Interaction. *ACM Transactions on Interactive Intelligent Systems*, 8(4), article 25 [10.1145/3281451](https://doi.org/10.1145/3281451)
25. Zhong J., Cangelosi A., Ogata T., Zhang X. (2018). Encoding longer-term contextual information with predictive coding and ego-motion. *Complexity*, Volume 2018, 7609587 [10.1155/2018/7609587](https://doi.org/10.1155/2018/7609587)
26. Cavallo F., Esposito R., Limosani R., Manzi A., Bevilacqua R., Felici E., Di Nuovo A., Cangelosi A., Lattanzio F., Dario P (2018). Robotic services acceptance in smart environments with older adults: User satisfaction and acceptability study. *Journal Medical Internet Research*, 20(9):e264 [10.2196/jmir.9460](https://doi.org/10.2196/jmir.9460)
27. Grzyb B., Cattani A., Cangelosi A., Floccia C. (2019). Children's scale errors: A by-product of lexical development? *Developmental Science*, 22:2, e12741 [10.1111/desc.12741](https://doi.org/10.1111/desc.12741)
28. Zhong J., Peniak M., Tani J., Ogata T., Cangelosi A. (2019). Sensorimotor Input as a language generalisation tool: A neurobotics model for generation and generalisation of noun-verb combinations with sensorimotor inputs. *Autonomous Robots*, 43:5, pp 1271–1290 [10.1007/s10514-018-9793-7](https://doi.org/10.1007/s10514-018-9793-7)
29. Mohamed A., Culverhouse P., Cangelosi A., Yang C. (2018). Active stereo platform: Online epipolar geometry update. *Journal on Image and Video Processing*, 2018: 54 [10.1186/s13640-018-0292-8](https://doi.org/10.1186/s13640-018-0292-8)
30. Conti D., Di Nuovo S., Cangelosi A. (in press). Babies and robots: How Developmental Robotics can give a methodological contribute to the psychology of typical and atypical development. *Giornale di Psicologia dello Sviluppo*. (in Italian)
31. Cangelosi A., Stramandinoli F. (2018). A review of abstract concept learning in embodied agents and robots. *Philosophical Transactions of the Royal Society B.* 373 20170131 [10.1098/rstb.2017.0131](https://doi.org/10.1098/rstb.2017.0131)
32. Rast A.D., Adams S., Davidson S., Davies S., Hopkins, Rowley A., Stokes A., Wennekers T., Furber S., Cangelosi A. (in press). Behavioural learning in a cognitive neuromorphic robot: An integrative approach. *IEEE Transactions on Neural Networks and Learning Systems* [10.1109/TNNLS.2018.2816518](https://doi.org/10.1109/TNNLS.2018.2816518)
33. Hernandez Garcia D., Adams S., Rast A., Wennekers T. Furber S., Cangelosi A. (2018). Visual attention and object naming in humanoid robots using a bio-inspired spiking neural network. *Robotics and Autonomous Systems*, 104:56-71 [10.1016/j.robot.2018.02.010](https://doi.org/10.1016/j.robot.2018.02.010)
34. Stepanova K., Klein Belmonte F., Cangelosi A., Vavrecka M. (2018). Mapping language to vision in a real-world robotic scenario. *IEEE Transactions on Cognitive and Developmental Systems*. [10.1109/TCDS.2018.2819359](https://doi.org/10.1109/TCDS.2018.2819359)
35. Cangelosi A., Schlesinger M. (2018). From babies to robots: The contribution of developmental robotics to developmental psychology. *Child Development Perspectives*, 12(3), 183-188 [10.1111/cdep.12282](https://doi.org/10.1111/cdep.12282)
36. Cangelosi A, Parisi D. (2018). The importance of starting with baby robots. *Giornale Italiano di Psicologia* (in Italian)
37. Taniguchi A., Taniguchi T., Cangelosi A. (2017). Cross-situational learning with Bayesian generative models for multimodal category and word learning in robots. *Frontiers in Neurobotics*, 11:66 [10.3389/fnbot.2017.00066](https://doi.org/10.3389/fnbot.2017.00066)
38. Vulchanova M., Baggio G., Cangelosi A., Smith L. (2017). Understanding language development in the digital age. *Frontiers in Human Neuroscience*, 11:447. [10.3389/fnhum.2017.00447](https://doi.org/10.3389/fnhum.2017.00447)
39. Howard I., Ford C., Cangelosi A., Franklin D. (2017). Active lead-in variability affects motor memory formation and slows motor learning. *Scientific Reports*, 7:7806. [10.1038/s41598-017-05697-z](https://doi.org/10.1038/s41598-017-05697-z)
40. Di Nuovo A., Broz F., Wang N., Belpaeme P., Cangelosi A., Jones R., Esposito R., Cavallo F., Dario P. (2018). The multimodal interface of robot-era multi-robot services tailored for the elderly. *Intelligent Service Robotics*, 11(1) 109-126. [10.1007/s11370-017-0237-6](https://doi.org/10.1007/s11370-017-0237-6).
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