

Curriculum Vitae

Gianluca Palli



Personal information

Name / Surname

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Nationality

Italian

Date of birth

January 6, 1977

Gender

Male

Researcher unique identifier(s)

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Education and training

May 2007

Ph.D. in Automation and Operations Research at the University of Bologna. Thesis Title: "Modeling and Control of Tendon Driven Robots". Supervisor: Prof. Claudio Melchiorri.

June 2003

Master's Degree in Automation Engineering at the University of Bologna. Thesis title: "Modeling and Control of Anthropomorphic Hands through Visual Servoing". Supervisor: Prof. Claudio Melchiorri.

Current position

Research interests

Full Professor at the University of Bologna, Department of Electrical, Electronic and Information Engineering "Guglielmo Marconi" (DEI). Academic discipline: IINF-04/A – Systems and Control Engineering.

Robotics and automatic control, with particular emphasis on robots interacting with unstructured environments, deformable-object perception and manipulation, and human-robot cooperation.

Past positions

2018 - 2021

Associate Professor at the University of Bologna, Department of Electrical, Electronic and Information Engineering.

2012 - 2018

Assistant Professor at the University of Bologna, Department of Electrical, Electronic and Information Engineering.

2008 - 2012	Research Associate (Post-doc) at the University of Bologna, Department of Electrical, Electronic and Information Engineering, for the European project DEXMART "DEXterous and autonomous dual-arm/hand robotic manipulation with sMART sensory-motor skills: A bridge from natural to artificial cognition" (FP7-216239, www.dexmart.eu).
2007 - 2008	Research Associate (Post-doc) at the University of Bologna, Department of Electrical, Electronic and Information Engineering, for the Regional project "Modeling and control of compliant transmission systems".
2006	Visiting Scholar at the DLR - German Aerospace Center. Supervisors: Prof. Gerd Hirzinger and Prof. Patrick van der Smagt.
Research projects	
2025 - 2026	Coordinator of the "SIMBIOSI" (Flexible hyper-actuated biomimetic wearable system with integrated natural interface for assistance and rehabilitation) project funded by the National Plan for Complementary Investments (PNC).
2024 - 2026	Coordinator of the project "SiMOD" (Multi-Robot Mobile System for the Manipulation of Deformable Objects), funded by the European Regional Development Fund PR-FESR 2021-2027, Research and Innovation of the Region Emilia-Romagna, CUP J47G22000830003.
2024 - 2026	Scientific responsible for CIRI-ICT the on the project "CYPHER" (CYberPHysical Components and advanced matERials for monitoring and sensing), funded by the European Regional Development Fund PR-FESR 2021-2027, Research and Innovation of the Region Emilia-Romagna, CUP E37G22000470007.
2024 - 2025	Scientific responsible of the work package "Design of anti-sloshing trajectories for industrial manipulators" within the project MATRIX - Robotic manipulation and transport of liquids for applications High performance industrial - funded by the Italian Ministry of the Economic Development, within the Industry 4.0 National Plan through the competence center Bi-REX - Big Data Innovation & Research Excellence.
2023 - 2024	Coordinator the project "INDUCTOR" (Innovative, Digital And Sustainable Technological Solutions For Increasing Production Efficiency) funded by Bucci Industries S.p.A.
2022 - 2026	Coordinator of the project "IntelliMan" (AI-Powered Manipulation System for Advanced Robotic Service, Manufacturing and Prosthetics), funded under the call HORIZON-CL4-2021-DIGITAL- EMERGING-01-11.
2020 - 2021	Coordinator of the project "SANITIZE" (Management of Sanitizing Robot Fleets to Combat the Covid-19 Emergency), funded by the European Regional Development Fund POR-FESR 2014-2020, Research and Innovation of the Region Emilia-Romagna, CUP E41B20000810007, within the call for research and innovation projects for the development of solutions against the COVID-19 pandemia.
2020 - 2021	Scientific responsible of the work package "Vision and AI systems for the automatic recognition of objects and operators" within the project FlexCoBot - Collaborative Robotics for Advanced, Interconnected and Flexible Manufacturing Systems - funded by the Italian Ministry of the Economic Development, within the Industry 4.0 National Plan through the competence center Bi-REX - Big Data Innovation & Research Excellence.
2019 - 2023	Coordinator of the Horizon 2020 project "REMODEL" (Robotic tEchnologies for the Manipulation of cOMplex DeformABLE Linear objects), DT-FOF-12-2019, GA no. 870133.
2019 - 2021	Coordinator of the University of Bologna unit for the project "COORSA" (Cooperation between Humans and Mobile Manipulators for the Factory of the Future) funded by the European Regional Development Fund POR-FESR 2014-2020, Research and Innovation of the Region Emilia-Romagna, CUP E81F18000300009.

2019 - 2020	Coordinator of the project "MOVE-RT" (ROS-Based Modular Approach to Task Priority Control) within the ROSIN – ROS-Industrial Quality-Assured Robot Software Components - framework, H2020-ICT-2016-1, GA no. 732287.
2018 - 2021	Coordinator of the project "ROBOTEST" (Robotic Platform for the Automatic Testing of Electric Appliances) funded by Electrolux ITALIA S.p.A.
2018 - 2019	Member of the Bologna research unit in the H2020 European project "AirBorne" (Aerial Robotic technologies for professional search and rescue), ICT-25-2016/17.
2016 - 2018	Coordinator of the project "WIRES" (Wiring Robotic System For Switchgears) - FP7-ICT-2011-9 Cognitive Systems and Robotics.
2017 - 2018	Member of the Bologna research unit for the Regional research project "Sinergie".
2013 - 2016	Coordinator of the Bologna unit in the research project PRIN-2011 "MARIS" (Marine Autonomous Robotics for InterventionS).
2013 - 2015	Member of the Bologna research unit in the European project "SHERPA" (Smart collaboration between Humans and ground-aerial Robots for improving rescuing activities in Alpine environments), ICT-600958.
2010 - 2012	Coordinator of the Bologna unit for the European project "TRIDENT" (Marine Robots and Dexterous Manipulation for Enabling Autonomous Underwater Multipurpose Intervention Missions), ICT-248497.
2008 - 2012	Member of the Bologna research unit and Coordinator of the Benchmark activities for the European project "DEXMART" (DEXterous and autonomous dual-arm/hand robotic manipulation with sMART sensory-motor skills: A bridge from natural to artificial cognition), ICT-216239, supported by the 7th EU Framework Programme.
2006 - 2008	Member of the Bologna research unit for the National research project PRIN05 "AIDA" (<i>Design e Applicazioni di Interfacce aptiche Avanzate: contatto soffice, multi punto e integrazione multimodale</i>).
2005 - 2008	Member of the Bologna research unit for the Regional research project "LARER".
2004 - 2005	Member of the Bologna research unit for the European project "GeoPlex" (Geometric Network Modeling and Control of Complex Physical Systems), IST-2001-34166.
2004 - 2005	Member of the Bologna research unit for the National project PRIN03 "OASYS" (<i>Open source software for industrial Automation and distributed SYstemS</i>).
Ph.D. Reading Committees	
2024	Member of the Ph.D. Evaluation Panel for Dr. Rita Leazza, "Robot Learning for Deformable Object Manipulation Tasks", Chalmers University of Technology, Gothenburg, Sweden.
2023	Member of the Ph.D. Evaluation Panel for Dr. Yuxuan Yang, "Advancing Modeling and Tracking of Deformable Linear Objects for Real-World Applications", University of Orebro, Sweden.
2022	Member of the Ph.D. Evaluation Panel for: – Eng. Hicham Touzani, "Planning for Multi-Robot Task Sequencing Problem with Automatic Collision Avoidance and Cycle Time Optimization : Application to Car Production line", Université Paris-Saclay; – Eng. Marco Minelli, "Advanced Control Strategies for Surgical Robotics", University of Modena and Reggio Emilia.
2021	Member of the Ph.D. Evaluation Panel for Eng. Mohammad Hussedin Hmadi, "Optimizing the Performance of the Industrial Robot CTFLEX in Packaging Automation Systems", University of Ferrara.

2019	Member of the Ph.D. Evaluation Panel for: – Eng. Giuseppe Riggio, “Communication and Interaction for Mobile Robots: from Lab to Industry”, University of Modena and Reggio Emilia; – Eng. Chiara Talignani Landi, “Towards Safe and Efficient Human-Robot Collaboration for Industrial Applications”, University of Modena and Reggio Emilia.
2018	Member of the Ph.D. Evaluation Panel for: – Eng. Glenn Matthijsen, “Series-Parallel Elastic Actuation Concepts for Improved Robot Performance”, Vrije Universiteit Brussel; – Eng. Roberto Meattini, “Electromyography Based Human-Robot Interfaces for the Control of Artificial Hands and Wearable Devices”, University of Bologna; – Eng. Seyedmohsen Mirhassani, “A Ground Robot for Search and Rescue in Hostile Environment”, University of Bologna; – Eng. Alberto Pepe, “Haptic Device Design and Teleoperation Control Algorithms for Mobile Manipulators”, University of Bologna; – Eng. Bessi Andrea, “Models and Algorithms for Operations Management Applications”, University of Bologna.
2017	Chair of the Ph.D. Evaluation Panel for Eng. Francesca Negrello, “Towards the Next Generation of Humanoid Robots for Real Scenarios”, Istituto Italiano di Tecnologia.
Tutoring Activity	
2025 - present	Supervisor of the Ph.D. student Eng. Cristina Sacconi at the University of Bologna.
2024 - 2027	Supervisor of the Ph.D. students Eng. Mattia Tafuri at the University of Bologna.
2024 - 2027	Supervisor of the Ph.D. students Eng. Nicole Alati at the University of Bologna.
2024 - 2027	Supervisor of the CSC Ph.D. students Eng. Lan Hongyu at the University of Bologna.
2023 - 2026	Supervisor of the Ph.D. students Eng. Mona Saber Gharamaleki at the University of Bologna.
2022 - 2025	Supervisor of the Ph.D. students Eng. Andrea Govoni at the University of Bologna.
2022 - 2025	Supervisor of the Ph.D. students Eng. Mahrukh Sarwar at the University of Bologna.
2022 - 2025	Supervisor of the Ph.D. students Eng. Alex Pasquali at the University of Genova.
2021 - 2024	Supervisor of the Ph.D. students Eng. Kevin Galassi at the University of Turin.
2020 - 2023	Supervisor of the Ph.D. students Eng. Alessio Caporali at the University of Bologna.
2017 - 2020	Supervisor of the Ph.D. students Eng. Riccardo Zanella at the University of Bologna.
2018 - 2021	Supervisor of the Ph.D. students Eng. Wendwosen Bellete Bedada at the University of Bologna.
2018 - 2021	Co-Supervisor of the Ph.D. students Eng. Gabriele Ancora at the University of Bologna.
2019 - 2021	Supervisor of the Dr. Roberto Meattini’s Research Grant at the University of Bologna.
2018 - 2021	Supervisor of the Dr. Davide Chiaravalli’s Research Grant at the University of Bologna.
2020 - 2021	Supervisor of the Eng. Kevin Galassi’s Research Grant at the University of Bologna.
2020 - 2021	Supervisor of the Dr. Sara Spedicato’s Research Grant at the University of Bologna.
2020 - 2023	Supervisor of the Eng. Riccardo Zanella’s Research Grant at the University of Bologna.
2020	Supervisor of the Eng. Alessio Caporali’s Research Grant at the University of Bologna.
2020 - 2021	Supervisor of the Dr. Alaa Khalifa’s Research Grant at the University of Bologna.
2019 - 2020	Supervisor of the Dr. Rawan Kalawoun’s Research Grant at the University of Bologna.

2019 - 2021	Supervisor of the Eng. Ismayil Ahmadli's Research Grant at the University of Bologna.
2017 - 2019	Supervisor of the Dr. Danilele De Gregorio's Research Grant at the University of Bologna.
2018 - 2019	Supervisor of the Dr. Davide Ortenzi's Research Grant at the University of Bologna.
2017 - 2018	Supervisor of the Dr. Ali Ahkras 's Research Grant at the University of Bologna.
2021	Supervisor of 10 Master students' thesis.
2020	Supervisor of 27 Master students' thesis and of 4 Bachelor students' thesis.
2019	Supervisor of 12 Master students' thesis and of 2 Bachelor students' thesis.
2018	Supervisor of 10 Master students' thesis and of 3 Bachelor students' thesis.
2008-2017	Supervisor of 15 Master students' thesis, Co-Supervisor of more than 30 Master students' thesis and of 50 Bachelor students' thesis.
International academic hosting	
2026 - 2028	University of Bologna host for Dr. Huibao Yang, postdoctoral researcher from Xiamen University, China.
2025 - 2026	University of Bologna host for Prof. Caterina Lamuta, Associate Professor at the University of Iowa, USA.
Teaching activity	
2025 - 2026	Course on "Automation Software and Design Patterns M" - 6 CFU - 60 hours - at the University of Bologna. Course on "Autonomous and Mobile Robotics M" - 6 CFU - 60 hours - at the University of Bologna. Course on "Engineering and Technology of Control Systems" - Module 2 of a 6 CFU integrated course - at the University of Bologna, Forlì Campus. Course on "Laboratorio di Controlli e Attuatori P-LU - Modulo 1" - module of a 6 CFU integrated course - at the University of Bologna. Course on "Laboratorio di Tecnologie per l'Automazione P-1-BO" - 3 CFU - at the University of Bologna. Course on "Strumenti e Tecnologie per l'Automazione P-2" - 3 CFU - at the University of Bologna.
2020 - 2026	Ph.D. Course on "Advanced Robotics" - 12 hours - at the University of Bologna.
2023 - 2024	Course on "Autonomous and Mobile Robotics M" - 6CFU - 60 hours - at the First Engineering Faculty on the University of Bologna. Course on "Automation Software and Design Patterns M" - 6CFU - 60 hours - at the First Engineering Faculty on the University of Bologna. Course on "Foundations of Industrial Robotics - module 1" - 3CFU - 30 hours - at the First Engineering Faculty of the University of Bologna. Course on "Ingegneria e Tecnologie dei Sistemi di Controllo LM" - 3CFU - 30 hours - at the Second Engineering Faculty of the University of Bologna. Course on "Theory of Systems and Controls for Automation - modulo 1" - 3CFU - 30 hours - at the Second Faculty of Engineering of the University of Bologna. Course on "Teoria dei Sistemi e dei Controlli per L'Automazione LM - modulo 1" - 3CFU - 30 hours - at the Second Faculty of Engineering of the University of Bologna. Course on "Controlli Automatici P" - 3CFU - 30 hours - at the Second Faculty of Engineering of the University of Bologna.
2022 - 2023	Course on "Autonomous and Mobile Robotics M" - 6CFU - 60 hours - at the First Engineering Faculty on the University of Bologna.

	Course on “Automation Software and Design Patterns M” - 6CFU - 60 hours - at the First Engineering Faculty on the University of Bologna. Course on “Foundations of Industrial Robotics - module 1” - 3CFU - 30 hours - at the First Engineering Faculty of the University of Bologna. Course on “Ingegneria e Tecnologie dei Sistemi di Controllo LM” - 3CFU - 30 hours - at the Second Engineering Faculty of the University of Bologna. Course on “Teoria dei Sistemi e dei Controlli per L’Automazione LM - modulo 1” - 3CFU - 30 hours - at the Second Faculty of Engineering of the University of Bologna. Course on “Laboratorio di Controlli e Attuatori P - modulo 1” - 3CFU - 30 hours - at the Second Faculty of Engineering of the University of Bologna.
2021 - 2022	Course on “Autonomous and Mobile Robotics M” - 6CFU - 60 hours - at the First Engineering Faculty on the University of Bologna. Course on “Automation Software and Design Patterns M” - 6CFU - 60 hours - at the First Engineering Faculty on the University of Bologna. Course on “Foundations of Industrial Robotics - module 1” - 3CFU - 30 hours - at the First Engineering Faculty of the University of Bologna. Course on “Ingegneria e Tecnologie dei Sistemi di Controllo LM” - 3CFU - 30 hours - at the Second Engineering Faculty of the University of Bologna. Course on “Teoria dei Sistemi e dei Controlli per L’Automazione LM - modulo 1” - 3CFU - 30 hours - at the Second Faculty of Engineering of the University of Bologna.
2020 - 2021	Course on “Automation Software and Design Patterns M” - 6CFU - 60 hours - at the First Engineering Faculty on the University of Bologna. Course on “Industrial Robotics M - modulo 2” - 3CFU - 30 hours - at the First Engineering Faculty of the University of Bologna. Course on “Ingegneria e Tecnologie dei Sistemi di Controllo LM” - 3CFU - 30 hours - at the Second Engineering Faculty of the University of Bologna. Course on “Teoria dei Sistemi e dei Controlli per L’Automazione LM - modulo 1” - 3CFU - 30 hours - at the Second Faculty of Engineering of the University of Bologna.
2019 - 2020	Course on “Automation Software and Design Patterns M” - 6CFU - 60 hours - at the First Engineering Faculty on the University of Bologna. Course on “Industrial Robotics M - modulo 2” - 3CFU - 30 hours - at the First Engineering Faculty of the University of Bologna. Course on “Ingegneria e Tecnologie dei Sistemi di Controllo LM” - 3CFU - 30 hours - at the Second Engineering Faculty of the University of Bologna. Course on “Teoria dei Sistemi e dei Controlli per L’Automazione LM - modulo 1” - 3CFU - 30 hours - at the Second Faculty of Engineering of the University of Bologna.
2018 - 2019	Course on “Automation Software and Design Patterns M” - 6CFU - 60 hours - at the First Engineering Faculty of the University of Bologna. Course on “Industrial Robotics M - modulo 2” - 3CFU - 30 hours - at the First Engineering Faculty of the University of Bologna. Course on “Ingegneria e Tecnologie dei Sistemi di Controllo LM” - 6CFU - 60 hours - at the Second Engineering Faculty of the University of Bologna. Course on “Teoria dei Sistemi e dei Controlli per L’Automazione LM - modulo 1” - 3CFU - 30 hours - at the Second Faculty of Engineering of the University of Bologna.
2017 - 2018	Course on “Automation Software and Design Patterns M” - 6CFU - 60 hours - at the First Engineering Faculty of the University of Bologna. Course on “Teoria dei Sistemi e dei Controlli per L’Automazione LM” - 6CFU - 60 hours - at the Second Engineering Faculty of the University of Bologna.

2016 - 2017	Course on “Automation Software and Design Patterns M” - 6CFU - 60 hours - at the First Engineering Faculty of the University of Bologna. Course on “Teoria dei Sistemi e dei Controlli per L’Automazione LM” - 6CFU - 60 hours - at the Second Engineering Faculty of the University of Bologna.
2015 - 2016	Course on “Teoria dei Sistemi e dei Controlli per L’Automazione LM” - 6CFU - 60 hours - at the Second Engineering Faculty of the University of Bologna. Course on “Ingegneria e Tecnologie dei Sistemi di Controllo LM - modulo 1” - 3CFU - 30 hours - at the Second Engineering Faculty of the University of Bologna. Course on “Sistemi e Tecnologie per l’Automazione LM - modulo 1” - 3CFU - 30 hours - at the Second Engineering Faculty of the University of Bologna.
2014 - 2015	Course on “Teoria dei Sistemi e dei Controlli per L’Automazione LM” - 6CFU - 60 hours - at the Second Engineering Faculty of the University of Bologna.
2013 - 2014	Course on “Automatic Control and System Theory M - modulo 2” - 6 CFU - 60 hours - at the First Engineering Faculty of the University of Bologna.
2012 - 2013	Course on “Automatic Control and System Theory M - modulo 2” - 3 CFU - 30 hours - at the First Engineering Faculty of the University of Bologna.
2011 - 2012	Course on “Sistemi di Elaborazione e Controllo M - modulo 2” - 3CFU - 30 hours - at the First Engineering Faculty of the University of Bologna.
2010 - 2011	Course on “Fondamenti di Controlli Automatici” - 5CFU - 50 hours - at the Engineering Faculty of the University of Modena. Course on “Sistemi di Elaborazione e Controllo M - modulo 2” - 3CFU - 30 hours - at the First Engineering Faculty of the University of Bologna.
2009 - 2010	Course on “Fondamenti di Controlli Automatici” - 5CFU - 50 hours - at the Engineering Faculty of the University of Modena.
2008 - 2009	Course on “Fondamenti di Controlli Automatici” - 5CFU - 50 hours - at the Faculty of Engineering of the University of Modena. Laboratory of “Realtime Software Technologies” - 3CFU - 30 hours - for the course on Hybrid Vehicle Design organized by Magneti-Marelli Powertrain. Tutor of the course of “Controlli Automatici LS” - 6CFU - 60 hours- held by prof. Claudio Melchiorri at the First Engineering Faculty of the University of Bologna.
2007 - 2008	Course on “Fondamenti di Controlli Automatici” - 5CFU - 50 hours - at the Engineering Faculty of the University of Modena. Tutor of the course of “Controlli Automatici LS” - 6CFU - 60 hours- held by prof. Claudio Melchiorri at the First Engineering Faculty of the University of Bologna.
2006 - 2007	Course on “Fondamenti di Controlli Automatici” - 5CFU - 50 hours - at the Engineering Faculty of the University of Modena. Tutor of the course on “Controlli Automatici LS” - 6CFU - 60 hours- held by prof. Claudio Melchiorri at the First Engineering Faculty of the University of Bologna.
2005 - 2006	Tutor of the course on “Controlli Automatici LS” - 6CFU - 60 hours- held by prof. Claudio Melchiorri at the First Engineering Faculty of the University of Bologna.
2004 - 2005	Tutor of the course on “Controlli Automatici LS” - 6CFU - 60 hours- held by prof. Claudio Melchiorri at the First Engineering Faculty of the University of Bologna.

Institutional roles

2024 - present	Member of the Scientific and Technical committee for the University of Bologna - SACMI S.p.A. partnership.
2023 - present	Coordinator of the Automation and Robotics Value Chain committee of the Emilia Romagna region.

2022 - present	Director of the First Cycle Degree Programme in Mechatronics at the University of Bologna.
2022 - present	Member of the Candidate Evaluation Board for the Ph.D. program in Biomedical, Electrical and Systems Engineering of the DEI - Department of Electrical, Electronic and Information Engineering "Guglielmo Marconi" - Università di Bologna.
2015 - present	Member of the Scientific Board of the Ph.D. program in Biomedical, Electrical and Systems Engineering of the DEI - Department of Electrical, Electronic and Information Engineering "Guglielmo Marconi" - Università di Bologna.
2021 - present	Member of the Quality Assurance Board for the Bachelor and Master Degrees on Automation Engineering at DEI - Department of Electrical, Electronic and Information Engineering "Guglielmo Marconi" of the University of Bologna.
2016 - 2024	Member of the Student Program Examination Board for the Bachelor Degree on Automation Engineering at DEI - Department of Electrical, Electronic and Information Engineering "Guglielmo Marconi" of the University of Bologna.
2021	Member of the 10th Master Thesis Evaluation Board during the Second Spring Session.
2020	Member of the 7th Master Thesis Evaluation Board during the First Fall Session. Member of the 6th Master Thesis Evaluation Board during the Summer Session. Member of the 8th Master Thesis Evaluation Board during the Spring Session.
2019	Member of the 7th Master Thesis Evaluation Board during the Spring Session.
2018	Member of the 5th Master Thesis Evaluation Board during the Second Summer Session. Member of the 2nd Master Thesis Evaluation Board during the First Summer Session. Member of the 3rd Master Thesis Evaluation Board during the First Summer Session.
Journal and conference service	
2026	General Co-Chair of the "2026 IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM 2026)", Genoa, Italy, July 7–10, 2026.
2020 - 2025	Associate Editor for the Elsevier Mechatronics Journal, ISSN: 0957-4158.
2021 - 2024	Associate Editor for the IEEE Transactions on Automation Science and Engineering, ISSN: 1545-5955.
2018 - 2022	Vice-Chair of the IFAC Technical Committee TC 4.3 Robotics.
2018 - 2022	Associate Editor for the IEEE Robotics and Automation Letters (RA-L), ISSN 2377-3766.
2024	Guest Associate Editor for the Special Issue "Smart Actuation and Multi-Modal Sensing Systems for Robotic Applications, Beyond the Human Capabilities" published by the IEEE/ASME Transactions on Mechatronics.
2021	Organizer of the "14th International Workshop on Human-Friendly Robotics", October 28-29, 2021, Bologna, Italy.
2021	Member of the Program Committee of the "26th IEEE International Conference on Emerging Technologies And Factory Automation", Vasteras, Sweden, September 7th - 10th, 2021.
2020	Member of the Program Committee of the "25th IEEE International Conference on Emerging Technologies And Factory Automation", Vienna, Austria, September 4th - 9th, 2020. Member of the organizing committee of the "13th International Workshop on Human-Friendly Robotics", November 11-13, 2020, Innsbruck, Austria.

2019	Member of the Program Committee of the “24th IEEE International Conference on Emerging Technologies And Factory Automation”, Zaragoza, Spain, September 10th - 13th, 2019. Member of the organizing committee of the “12th International Workshop on Human-Friendly Robotics”, November 13-14, 2019, Reggio Emilia, Italy. Member of the Program Committee of the “2019 IEEE International Conference on Robotics and Biomimetics”, December 6-8, 2019, Dali, Yunnan, China.
2018	Guest Associate Editor for the Special Issue “Robotics and Innovative Manufacturing in Architecture and Structural Design”, published on Frontiers in Mechanical Engineering - Mechatronics. Guest Editor for the Special Issue “Robotic Actuators”, published on Actuators (ISSN 2076-0825; CODEN: ACTUC3). Guest Editor for the Special Issue “Robotics and Innovative Manufacturing in Architecture and Structural Design”, published on Frontiers in Built Environment, ISSN: 2297-3362. Member of the Program Committee of the “2018 IEEE International Conference on Robotics and Biomimetics”, December 12-15, 2018, Kuala Lumpur, Malaysia. Member of the organizing committee of the “11th International Workshop on Human-Friendly Robotics”, November 13-14, 2018, Shenzhen, China. Member of the Program Committee of the “23rd IEEE International Conference on Emerging Technologies And Factory Automation”, September 4-7, 2018, Torino, Italy.
2017	Member of the Program Committee of the “2017 IEEE International Conference on Robotics and Biomimetics”, December 5-8, 2017, Macau SAR, China. Member of the Program Committee of the “22nd IEEE International Conference on Emerging Technologies And Factory Automation”, September 12-15, 2017, Limassol, Cyprus. Member of the organizing committee of the “10th International Workshop on Human-Friendly Robotics”, November 6-7, Naples, Italy.
2016	Organizer of the workshop “Twisted String Actuation: State of the Art, Challenges and New Applications” at the 2016 IEEE/RSJ International Conference on Intelligent Robots and Systems, Daejeon, Korea, October 9-14. Member of the organizing committee of the “9th International Workshop on Human-Friendly Robotics”, September 29-30, Genova, Italy.
2015	Member of the organizing committee of the “8th International Workshop on Human-Friendly Robotics”, October 21-23, 2015, at Technische Universität München (TUM), Munich, Germany.
2014	Organizer of the workshop “Anthropomorphic Robotic Hands: Design and Control” at the IEEE Humanoids 2014, Madrid, Spain, November 18-21. Member of the organizing committee of the “7th International Workshop on Human-Friendly Robotics”, October 23-24, 2014, by the BioRobotics Institute at Museo Piaggio, Pontedera, Italy.
2013	Member of the organizing committee of the “6th International Workshop on Human-Friendly Robotics”, September 25-26, 2013, at the DIAG Sapienza University of Rome, Rome, Italy.
2012	Member of the organizing committee of the “5th International Workshop on Human-Friendly Robotics”, October 18th-19th, 2012, at the Royal Military Academy, Brussels, Belgium.
2011	Member of the Technical Committee of the “Robotics: Science and Systems Conference”, June 27-30, Campus at the University of Southern California, in Los Angeles, California, USA.

	Member of the organizing committee of the “4th International Workshop on Human-Friendly Robotics”, November 8-9, 2011, University of Twente, The Netherlands.
2010	Member of the Technical Committee of the “Robotics: Science and Systems Conference”, June 27 – 30, 2010, Zaragoza, Spain.
	Member of the organizing committee of the “3rd International Workshop on Human-Friendly Robotics”, October 28-29, 2010, at the Max Planck Institute for Biological Cybernetics, Tübingen, Germany.
2009	Member of the organizing committee of the “2nd International Workshop on Human-Friendly Robotics”, December 3rd, 2009, at Fondazione Mediaterraneo, Sestri Levante, Italy.
Reviewer Activity	
2018-2021	Reviewer for the ESMERA (European SMEs Robotics Applications) Project.
2019	Reviewer for the Marsden Fund research grants issued by the Royal Society of New Zealand.
2019	Reviewer for the RobMoSys (Composable Models and Software for Robotic Systems) Project.
2018	Reviewer for the HORSE (Smart integrated Robotics system for SMEs controlled by Internet of Things based on dynamic manufacturing processes) Project.
2012	Reviewer for the FET-Open FP7-ICT-2011-C program.
Reviewer for international journals	Reviewer of 12 submissions to IEEE Robotics and Automation Magazine
	Reviewer of 5 submissions to the International Journal of Robotics Research Reviewer of 24 submissions to IEEE Transactions on Robotics Reviewer of 17 submissions to IEEE Robotics and Automation Letters Reviewer of 22 submissions to IEEE Transactions on Mechatronics Reviewer of 2 submissions to IEEE Transactions on Automation Science and Engineering
Reviewer for international journals	Reviewer of 10 submissions to IEEE Transactions on Control Systems Technology Reviewer of 13 submissions to IEEE Transactions on Industrial Electronics Reviewer of 3 submissions to IEEE Transactions on Industrial Informatics Reviewer of 4 submissions to IEEE Sensors Journal Reviewer of 4 submissions to IEEE Access Reviewer of 1 submission to International Journal of Distributed Sensor Networks Reviewer of 2 submissions to ASME Journal of Mechanisms and Robotics Reviewer of 39 submissions to Mechatronics Reviewer of 7 submissions to Control Engineering Practice Reviewer of 5 submissions to International Journal of Control, Automation and Systems Reviewer of 8 submissions to Robotics and Autonomous Systems Reviewer of 3 submissions to Advances in Mechanical Engineering Reviewer of 3 submissions to Advanced Robotics Reviewer of 2 submissions to Robotica Reviewer of 2 submissions to MDPI Actuators Reviewer of 6 submissions to MDPI Sensors

Reviewer for international conferences

IEEE International Conference on Robotics and Automation, IEEE/RSJ International Conference on Intelligent Robots and Systems, International IFAC Symposium on Robot Control, IEEE/RSJ International Conference on Advanced Intelligent Mechatronics, IEEE Multi-conference on Systems and Control, IEEE Conference on Decision and Control, International Conference on Applied Bionics and Biomechanics, IFAC Symposium on Robot Control, International Conference on Human Robot Interaction, International Symposium on Experimental Robotics, International Conference on Humanoid Robots, IEEE International Conference on Automation Science and Engineering.

Awards

- 2025 Winner of the Research Grant for the vEIColo Call jointly promoted by the Compagnia di San Paolo Foundation, through the “Enhance Research” Mission, the Cariplo Foundation, within the mandate “Creating enabling conditions for community strengthening”, and the CDP Foundation, within the “Scientific Assistance and Research” sector.
- 2022 Best Paper Award on Adaptive Systems Dynamics and Controls for the paper: Mario Baggetta, Giovanni Berselli, Gianluca Palli, and Claudio Melchiorri, “Mechatronic Design and Physical Prototyping of a Three-Fingered Gripper for Underwater Manipulation,” presented at the ASME 2022 Conference on Smart Materials, Adaptive Structures and Intelligent Systems.
- 2022 Best Paper Presentation Award from the 31st FAIM International Conference, FAIM2022, for the paper: Mario Baggetta, Giovanni Berselli, Gianluca Palli, Claudio Melchiorri, “Design, modeling and control of a variable stiffness elbow joint”.
- 2021 I-RIM 2021 Best Paper Award for the paper: Mario Baggetta, Giovanni Berselli, Gianluca Palli and Claudio Melchiorri, “Virtual Prototyping of a Compliant Robotic Wrist”.
- 2021 ICPS 2021 Best Student Paper Award for the paper: A. Caporali, W. B. Bedada, G. Palli, “A Cyber-Physical System for Clothes Detection, Manipulation and Washing Machine Loading”, presented at The 4th IEEE International Conference on Industrial Cyber-Physical Systems, 10–12 May, 2021, Victoria, Canada.
- 2020 IEEE Transactions on Automation Science and Engineering Best New Application Paper Award for the paper: D. De Gregorio, R. Zanella, G. Palli, S. Pirozzi and C. Melchiorri, “Integration of Robotic Vision and Tactile Sensing for Wire-Terminal Insertion Tasks”, IEEE Transactions on Automation Science and Engineering, 16(2), Page(s) 585-598, 2019.
- 2019 Human Friendly Robotics Best Paper Award for the paper: Meattini R., Biagiotti L., Palli G., Melchiorri C. “Grasp-Oriented Myoelectric Interfaces for Robotic Hands: A Minimal-Training Synergy-Based Framework for Intent Detection, Control and Perception”. In: Ferraguti F., Villani V., Sabbatini L., Bonfè M. (eds) Human-Friendly Robotics 2019. Springer Proceedings in Advanced Robotics, vol 12. pp 110-124.
- 2018 ASME Best Paper Award in Adaptive Systems Dynamics and Control for the paper: P. Bilancia, G. Berselli, U. Scarcia and G. Palli, “Design of a Beam-Based Variable Stiffness Actuator via Shape Optimization in a CAD/CAE Environment”, presented at the ASME 2018 Conference on Smart Materials, Adaptive Structures and Intelligent Systems.
- 2013 Innovate Italy Award 2013, assigned by ALTERA Inc. for the project “FPGA-based Control and Interface System for an Anthropomorphic Robotic Hand”.
- 2012 IEEE I-RAS Young Author Best Paper Award 2012, assigned by the Robotics & Automation Society - Italian Chapter, for the paper: G. Berselli, M. Piccinini, G. Palli and G. Vassura, “Engineering Design of Fluid-filled Soft Covers for Robotic Contact Interfaces: Guidelines, Nonlinear Modeling and Experimental Validation”, IEEE Transaction on Robotics, vol. 27 Issue:3, pages: 436–449, ISSN: 1552-3098, 2011.

Publications

Bibliometrics

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Journal publications	
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[J78]	Govoni, A., Cavuoto, M., Li, Y., Calinon, S., Palli, G., "Real-time collision avoidance with robot distance fields in a task-priority framework", <i>Robotics and Autonomous Systems</i> , vol. 200, article no. 105394, pp. 1–16, 2026.
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Personal skills and competences

Mother tongue

Self-assessment
European level^(*)

English

French

German

Official Assessment

Italian

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
B2	Independent user	B2	Independent user	B2	Independent user	B1	Independent user	B1	Independent user
A2	Basic user	A2	Basic user	A2	Basic user	A1	Basic user	A1	Basic user

^(*) Common European Framework of Reference (CEF) level

British Council IELTS C1 Certification.

Hobbies and personal interests

Sports	Running, Mountain Bike, Alpine Skiing, Triathlon, Swimming, Tennis, Mountaineering, Horse Riding
2017 - 2018	UISP Trail Running Italian Champion M40
Marathon Personal Best	2h37'34"
Half Marathon Personal Best	1h15'31"
1995 - 2015	Voluntary ambulance driver and rescue assistant for the 118 emergency service of the AUSL Romagna.
Musical instruments	Guitar