

# Curriculum Vitae

Antonio Bicchi  
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**I.D.** Born on June, 1, 1959, in Pontremoli (Tuscany). Italian citizen.

## Education

- Laurea degree in Mechanical Engineering, December 1984. Awarded *cum laude*, Università di Pisa;
- Ph.D., Dept. of Mechanical Eng., Università di Bologna, September 1989;
- Post Doctoral Scholar, Artificial Intelligence Laboratory, Massachusetts Institute of Technology, 1989.

## Positions

**2001–** Professor of Automatic Control and Robotics, Università di Pisa;  
**2009–** Senior Scientist, Istituto Italiano di Tecnologia, Genova;  
**2013–** Adjunct Professor, School of Biological and Health Systems Engineering (SBHSE), Arizona State University, U.S.A.  
**2007** Adjunct Professor, Dept. of Psychology, Università di Firenze;  
**2004–2012** Director, Interdepartmental Research Center “E. Piaggio”;  
**1997–2000** Associate Professor, Università di Pisa;  
**1990–1997** Assistant Professor, Università di Pisa;  
**1991–1996** Adjunct Professor, Dept. of Information Engineering, Università di Siena;  
**1990–1991** Postdoctoral Visiting Scientist, Artificial Intelligence Laboratory, Massachusetts Institute of Technology;

## Main Scientific Interests

- Robotics and Intelligent Machines;
- Haptics and Multimodal Interfaces;

- Automatic Control of Hybrid Continuous/Symbolic Dynamical Systems;

## Publications

Antonio Bicchi is author of around 120 articles on journals and 400 peer-reviewed papers presented at conferences and chapters in edited books.

In June, 2025, Google Scholar reports about 37000 citations (more than 14000 in the last 5 years), with indices  $h=87$  (55) and  $i10=429$  (243). At the same date, Scopus reports 585 documents, 23000 citations,  $h=68$ .

The October 2023 data update for "Updated science-wide author databases of standardized citation indicators" (aka "Top 2% scientists of all times") reports him to be within the top 0.1% as no. 100 in AI and Engineering and no. 30 in Control and Robotics.

## Honours and Awards

- 2025** "IEEE Pioneer in Robotics and Automation" Citation: "For pioneering fundamental contributions to artificial hands, haptics, and human-robot collaboration, and for their applications to robotics and prosthetics."
- 2025** E. Fontana, G. Grioli, M. Catalano, M. Bianchi, A. Bicchi best poster finalist ICORR-Rehab Week, for "Towards Magnetically Induced Skin Stretch for Hand Proprioceptive Feedback."
- 2024** Front page highlight in Journal "Robotics" (<https://www.mdpi.com/journal/robotics>) for paper "Exploring Saliency for Learning Sensory-Motor Contingencies in Loco-Manipulation Tasks" (<https://www.mdpi.com/2218-6581/13/4/58>)
- 2023** King-Sun Fu Memorial Best IEEE Transactions on Robotics Paper Award - Honorable mention for paper "Grasp it Like a Pro 2.0: A Data-Driven Approach Exploiting Basic Shapes Decomposition and Human Data for Grasping Unknown Objects", Alessandro Palleschi, Franco Angelini, Chiara Gabellieri, Do Won Park, Lucia Pallottino, Antonio Bicchi, and Manolo Garabini Volume 39, Issue 5, pages 4016-4036, October 2023.
- 2019** Ordine del Cherubino (highest recognition of the University of Pisa).
- 2018** ERC Synergy Grant for the research program "Natural Bionics", 2019-2025. Co-PIs Dario Farina (Imperial College, London) and Oskar Aszmann (University Hospital, Wien)
- 2018** "IEEE RAS George Saridis Leadership Award in Robotics and Automation." Citation: For his leadership in the robotics and automation community through research innovation, technology transfer, education and professional development.
- 2017** "Award for Excellence" for top 10 most cited papers since first publication of the Elsevier Mechanism and Machine Theory Journal for "An atlas of physical human-robot interaction" Volume 43, Issue 3, March 2008, Pages 253-270, by A. De Santis, B. Siciliano, A. De Luca, A. Bicchi
- 2017** IEEE Int.l Conf. on Advanced Intelligent Mechatronics (AIM'17) Best Paper Award (finalist): "Design and Characterization of a Novel High-Compliance Spring for Robots with Soft Joints" F. eggello, M. Catalano, M.arabini, M. Poggiani, D. G. Caldwell, N. Tsagarakis, A. Bicchi.
- 2017** IEEE Worldhaptics Conference 2017. Best Paper Award (finalist): "Tactile Slip and Hand Displacement: Bending Hand Motion with Tactile Illusions", M. Bianchi, A. Moscatelli, S. Ciotti, G.C. Bettelani, F. Fioretti, F. Lacquaniti, and A. Bicchi.
- 2017** IEEE Worldhaptics Conference 2017. Best Paper Award and Best Student Paper Award (finalist): "The Rice Haptic Rocker: skin stretch haptic feedback with the Pisa/IIT Soft-Hand", E. Battaglia, J. Clark, M. Bianchi, M. Catalano, A. Bicchi, and M. O'Malley

- 2017** International Congress on Ultra Modern Telecommunications and Control Systems (ICUMT2017). Winner, Best Paper Award (Robotics) and Best Student Paper Award (General).
- 2016** Haptics Symposium 2016 Best Paper Award: "A Wearable Fabric-based Display for Haptic Multi-Cue Delivery", M. Bianchi, E. Battaglia, M. Poggiani, S. Ciotti, A. Bicchi.
- 2015** Humanoids 2015 Best Interactive Paper Award: "Dexterity augmentation on a synergistic hand: the Pisa/IIT SoftHand+", C. Della Santina, G. Grioli, M. Catalano, A. Brando, and A. Bicchi;
- 2015** Two of Top Ten Cited papers, Robotics and Autonomous Systems
- 2014** EuroHaptics 2014 Best Poster Award: "A change in the fingertip contact area induces an illusory displacement of the finger", A. Moscatelli, M. Bianchi, A. Serio, O. Al Atassi, S. Fani, A. Terekhov, V. Hayward, M. Ernst and A. Bicchi
- 2013** Top Ten Best Research Papers, IEEE Transaction on Intelligent Transportation Systems
- 2012–2017** Awarded an ERC Advanced Grant for the individual research program "Soft-Hands";
- 2013** IEEE Int. Conf. Robotics and Automation 2013 Best Paper Award (finalist): "A real-time robust observer for an agonist–antagonist variable stiffness actuator", T. Menard, G. Grioli, and A. Bicchi;
- 2012** Humanoids 2012 Best Paper Award: "Adaptive Synergies for a Humanoid Robot Hand", G. Grioli, M. Catalano, C. Piazza, A. Serio, E. Farnioli, and A. Bicchi;
- 2012** IROS 2012 JTCF Novel Technology Best Paper Award: "Synergy-based optimal design of hand pose sensing", M. Bianchi, P. Salaris, and A. Bicchi;
- 2012** IROS Jubilee Best Video Award, "Variable Impedance Actuators: Moving the Robots of Tomorrow", B. Vanderborght, A. Albu-Schaeffer, A. Bicchi, *et al.*;
- 2012** ICRA 2012 Best Manipulation Paper Award (finalist), "Tele-Impedance: Towards Transferring Human Impedance Regulation Skills to Robots", A. Ajoudani, N. Tsagarakis, and A. Bicchi;
- 2011** IEEE RAS Distinguished Service Award "For his work as RAS Membership Vice-President, Chair of the RAS Conference Editorial Board, and leader in making RAS the focal point for Haptics"
- 2010** Haptics Symposium 2010 Best Paper Award (finalist), "A new fabric-based softness display" M. Bianchi, A. Serio, E. P. Scilingo, and A. Bicchi;
- 2009** ETFA 2009 Fumio Harashima Best Paper Award, "Designing Real-Time Embedded Controllers using the Anytime Computing Paradigm" by A. Quagli, D. Fontanelli, L. Greco, L. Palopoli, and A. Bicchi;
- 2009** CDC 2009 General Chairs' Recognition Award for Interactive Papers, "On the Security of Linear Distributed Iterations", F. Pasqualetti, A. Bicchi, and F. Bullo, IEEE Intl. Conf. on Decision and Control;
- 2009** AAP Award for Excellence in Physical Sciences and Mathematics, for Springer Handbook of Robotics, Springer Science and Business Media, Professional & Scholarly Publishing Division, Association of American Publishers, Inc.;
- 2008** ICRA 2008 KUKA Service Robotics Best Paper Award, "VSA-II: a Novel Prototype of Variable Stiffness Actuator for Safe and Performing Robots Interacting with Humans", R. Schiavi, G. Grioli, S. Sen, A. Bicchi;
- 2007** Invited to write the entry for "Controllo, Teoria del" ("Control Theory") for the Enciclopedia Italiana "Treccani", the major and most prestigious Encyclopaedia in Italy;

- 2005** IEEE Fellow “for contributions to automatic control of mechanisms and robots;”
- 2005** ICRA’05 Best Manipulation Paper Award,
- 1998** IEEE ICRA’98 Best Paper Award (finalist);
- 1990** IEEE ICRA’90 A. Philips International Award (finalist);
- 1985** Award “L. C. Rossi” for the best national M.S. dissertation on Automation Research.

### **Honours and Awards to Students**

- 2025 Georges Giralt PhD Award (best Ph.D. Thesis in Robotics and Automation). Finalist, Michele Pierallini;
- 2024 Georges Giralt PhD Award (best Ph.D. Thesis in Robotics and Automation). Finalist, Alessandro Palleschi;
- 2023 SIDRA (Italian Society of Professors and Researchers in Automatica) Award (best Italian Ph.D. Thesis in Automatic Control) to Federica Barontini;
- 2023 EuroHaptics Society Award (Best Ph.D. Thesis in Haptics) to Federica Barontini.
- 2023 IEEE RAS Early Career Award to Cosimo Della Santina.
- 2023 IEEE Italy Section - ABB 2023 Master Thesis in Technology to Giulia Pagnanelli;
- 2022 University of Pisa: Best Engineering PhD Award to George Jose Pollayil;
- 2022 IEEE Italy Section - ABB 2022 Ph.D. Thesis in Technology to Patricia Capsi;
- 2021 SIDRA (Italian Society of Professors and Researchers in Automatica) Award (best Italian Ph.D. Thesis in Automatic Control) to Franco Angelini;
- 2021 IEEE RAS Early Career Award to Arash Ajoudani.
- 2021 Georges Giralt PhD Award (best Ph.D. Thesis in Eu Robotics and Automation) to Giuseppe Averta;
- 2020 Georges Giralt PhD Award (best Ph.D. Thesis in Eu Robotics and Automation) to Cosimo Della Santina;
- 2020 University of Pisa: Best Engineering PhD Award to Cristina Piazza;
- 2020 EECI PhD Award (best PhD thesis in Eu Control for Complex and Heterogeneous Systems). Finalist, Cosimo Della Santina;
- 2018 University of Pisa: Best Engineering PhD Award to Edoardo Battaglia;
- 2016 EuroHaptics Society Award (Best Ph.D. Thesis in Haptics) to Alessandro Altobelli.
- 2015 Georges Giralt PhD Award (best Ph.D. Thesis in Robotics and Automation). Finalist, Arash Ajoudani;
- 2014 Georges Giralt PhD Award (best Ph.D. Thesis in Robotics and Automation) to Manuel G. Catalano;
- 2007 Georges Giralt PhD Award (best Ph.D. Thesis in Robotics and Automation). Finalist, Giovanni Tonietti;

### **Boards, Scientific Societies, and Service**

- 2019-2025** Founding President, Italian Institute of Robotics and Intelligent Machines;
- 2020** Member of the Expert Committee to draft the National Research Plan for the Italian Ministry of University and Research
- 2019-2021** Member of ERC Advanced Grants Evaluation Panel on “Systems and Communication Engineering”

- 2017-2019** Member of ERC Advanced Grants Evaluation Panel on “Systems and Communication Engineering”
- 2017-2019** Elected Member of the Advisory Committee (AdCom) of IEEE Robotics and Automation Society
- 2017-2018** Member of the Advisory Board, Institut des Systèmes Intelligents et de Robotique (ISIR), Sorbonne Universités, Paris
- 2016–** Distinguished Lecturer of the IEEE Computer Society/Robotics and Automation Society (RAS) Technical Committee on Haptics;
- 2013–2016** President, Scientific Committee “Consorzio Intellimech” for Industrial Research, Bergamo, Italy
- 2015-2017** Member of ERC Advanced Grants Evaluation Panel on “Systems and Communication Engineering”
- 2011-2015** Member of the Executive Board, Technology Pole for Technology Transfer and Startup Incubation, Navacchio, Pisa, Italy
- 2014–2015** Vice President for Publication Activities, IEEE Robotics and Automation Society (RAS);
- 20013–2014** Elected Member of the Advisory Committee (AdCom), IEEE RAS
- 2012** Chair, Society Awards Evaluation Committee, IEEE RAS
- 2010–2013** President, Italian Society of Researchers in Automatic Control (SIDRA)
- 2009-2010** Co-Chair, IEEE Fellow Evaluation Committee;
- 2009-2011** Elected Member of the Advisory Committee (AdCom), IEEE RAS
- 2005** Chair, First WorldHaptics Conference and WorldHaptics Steering Committee
- 2007–** Senior Advisor, Technical Committee on Haptics
- 2006–** Steering Committee, Eurohaptics Society
- 2006–2007** Vice President for Membership, IEEE Robotics and Automation Society (RAS) (term 2006-2007);
- 2004–2006** Distinguished Lecturer of the IEEE Robotics and Automation Society (RAS);
- 2001–2004** Chairman, IEEE Control Systems Society (CSS) Technical Committee on Manufacturing, Automation, and Robotics Control
- 2001–2003** Elected Member of the Advisory Committee, IEEE RAS

### Commissions of Trust

- 2025–** Member of Advisory Board, Department of Robotics. Mohammed Bin Zuai University of Artificial Intelligence MBZUAI, Abu Dhabi
- 2025–** Member of Scientific Advisory Board, Human Augmentation via Dexterity Engineering Research Center (HAND ERC). Northwestern University, Carnegie Mellon University, Florida A&M University, Massachusetts Institute of Technology, and Texas A&M University).
- 2024** Selection Committee for Professorship Recruiting, ETH Zurich
- 2022–** Member of Science Advisory Board, Munich Institute of Robotics and Machine Intelligence (MIRMI), Technical University of Munich
- 2022–** Member of the Advisory Board, Berkeley SkyDeck Europe, Milan;
- 2021** Member of Evaluation panel for Swedish Distinguished Professorships;

- 2019-2020** Member of the Selection Committees for Linnaeus Centers of Excellence (Sweden)
- 2015, 2017, 2019, 2021** Member of ERC Advanced Grants Evaluation Panel;
- 2019** Member of the Austrian COMET Program Evaluation Panel;
- 2017-2018** Member of the Evaluation Board, Institut des Systèmes Intelligents et de Robotique (ISIR), Sorbonne Universités, Paris
- 2016** Review Panel member, Ho-Am Foundation Prize (most prestigious award for Koreans at home and abroad);
- 2016** Expert Evaluator, Ministry of Education, Science and Sport, Republic of Slovenia;
- 2016** Review Panel member, Samsung Research Funding Center, Korea;
- 2016** Review Panel member, Deutsche Forschungsgemeinschaft (DFG) German Research Foundation;
- 2014** Chair, Selection Committee for Physical Sciences and Engineering, Italian Government SIR (Scientific Independence of Young Researchers) Program. Also, head of sub-panel PE-7 (Information and Communications Engineering);
- 2013** Chair, Selection Committee for Physical Sciences and Engineering, Italian Government FIR (Future in Research) Program. Also head of sub-panel PE-7 (Information and Communications Engineering);
- 2012** Member of the Evaluation Board of Centers of Excellence for the Spanish Government “Severo Ochoa” Programme;
- 2011, 2012** Member of the Agence Nationale de la Recherche, Département non thématique - Evaluation Committee “SIMI 3 - Matériels et logiciels pour les systèmes et les communications”. Supervising the French evaluation of national and international research projects “Blanc” and “JCJC”;
- 2012-2013** Chair, Society Awards Evaluation Committee, IEEE Robotics and Automation Society (the Society counts ca. 6000 members);
- 2012-2013** Review Panel member, European Research Council (ERC) Starting Grants, Consolidator Grants;
- 2012** Review Panel member, ETH Zurich Research Commission, Switzerland;
- 2011-2013** Intl. Evaluation Board member, Jiao Tong University, Shanghai, China;
- 2011** Review Panel member, Israel Science Foundation (ISF);
- 2011** Review Panel member, Croatian Science Foundation (CSF);
- 2011** Review Panel member, Belgium Research Council (FWO);
- 2010** Review Panel member, Progetti Futuro in Ricerca (FIRB) 2010;
- 2010** Review Panel member, Netherlands Organisation for Scientific Research (NWO);
- 2010** Chair, Fellow Evaluation Committee, IEEE Robotics and Automation Society (the Society counts ca. 6000 members);
- 2009-2010** Member of review panel for the European Research Council (ERC) Advanced Investigator Grants;
- 2011-2012** Member of Intl. Evaluation Board, Jiao Tong University, Shanghai, China;
- 2004-2005** Invited to evaluation panels for national funding agencies in Austria, Sweden, Poland, Norway, the Netherlands, Belgium, the U.S.A., France, Israel, Croatia, and Italy;
- 2003-2004** Member of evaluation panels for European Commission in FP6 and FP7 calls on “Cognition and Robotics”, “Multimodal Interfaces”, “Biologically Inspired Intelligent Information Systems”, “Future and Emerging Technologies - Open Scheme”;

**2005–2006** Project Reviewer for European Commission grants (Actors, Miamm, Multimodal, Biotact, Rosetta, Romans) .

## Editorial Boards

**2023–** Editor in Chief, *Int. J. of Robotis Research*

**2022–** Editor, *Annual Reviews in Control, Robotics and Autonomous Systems*

**2015–2019** Founding Editor in Chief, *IEEE Robotics and Automation Letters*

**2012–2014** Editor, *IEEE Trans. Automation Science and Engineering*

**2011–2018** Editor in Chief, Springer Series “Briefs in Electrical and Computer Engineering: Control, Automation and Robotics”

**2008–2011** Editor in Chief, IEEE RAS *Conference Editorial Board*, in charge of the annual review process for IEEE RAS Int. Conferences on Robotics and Automation (ICRA);

**2009–** Member of the Editorial Advisory Board, *Springer Series on Touch and Haptic Systems*;

**2008–** Member of the Editorial Board, *Int. Journal of of Intelligent Computing and Cybernetics*;

**2001–** Member of the Editorial Board, *Int. Journal of Robotics Research*;

**2007** Member of the Committee for Selection of the Founding Editor in Chief of the *IEEE Transactions on Haptics*;

**2004–2009** Member of the Advisory Board of IEEE Trans. on Automation Science and Engineering;

**2001–2005** Member of the Editorial Board, “IEEE Robotics and Automation Magazine”;

**1996–2000** Associate Editor, *IEEE Transactions on Robotics and Automation*;

**1997–2001** Member of the Editorial Board, *Applied Mathematics and Computer Science*;

## Conference Organization

**2019** Founding General Co-Chair, I-RIM 3D, Three Days of Robotics and Intelligent Machines, Rome, October 2020;

**2020** General Chair, Robotics Science and Systems 2020;

**2019** Program Chair, Robotics Science and Systems 2019, Freiburg, Germany;

**2016** Program Chair, IEEE Int. Conf. Robotics and Automation, ICRA’16, Stockholm, Sweden;

**2016** General Chair, IEEE Modelling and Simulation for Autonomous Systems Workshop MESAS’16, Rome;

**2015** General Chair, Int.l Symp. Robotics Research ISRR’15, Sestri Levante, Italia, September 2015;

**2011–2015** General Chair and organizer of the Robotics Jam Sessions series, Pisa, 2011, 2012, 2013, 2014, 2015.

**2011** Conference Chair, First Automatica.it Symposium, Pisa, September 2011;

**2011** Chair of the Control Systems Technical Program, ICUMT 2011, St. Petersburg, Russia;

**2007** Conference Chair, HSCC’07 — Tenth Int. Conference on Hybrid Systems: Computation and Control, Pisa, April 2007 (with A. Bemporad and G. Buttazzo);

**2005** Founding General Co-Chair, IEEE WorldHaptics (WHC’05) — First Joint Haptics Symposium and EuroHaptics Conference, Pisa, March 2005;

- 2000** Conference Chair, First International Workshop on “Mathematical Control Theory and Robotics”, SISSA/ISAS, Trieste, Italy (with A. Agrachev, B. Piccoli);
- 2010** Organizer and Co-Chair of the IEEE–RAS ICRA Workshop on New variable impedance actuators for the next generation of robots, Anchorage, Alaska;
- 2008** Organizer and Co-Chair, Robotics Science and Systems Workshop on “Design and Control of Variable Impedance Actuators for Physical Interaction of Robots with Humans and their Environment”, Zurich;
- 2009** Chair, Best Service Robotics Paper Award Committee, IEEE Int. Conf. Robotics and Automation (ICRA);
- 2010** Chair, Best Manipulation Paper Award Committee, IEEE Int. Conf. Robotics and Automation (ICRA);
- 2008** Area Chair, Robotics Science and Systems, Zurich, 2008;
- 2008** Program Vice-Chair (Europe), IEEE/RSJ Int. Conf. Intelligent Robot Systems, IROS’08 Nice, 2008;
- 2007** Program Vice-Chair, IEEE Int. Conf. Automation Science and Systems, CASE’07, Scottsdale, September 2007;
- 2006** Area Chair, Robotics Science and Systems, Philadelphia, August 2006;
- 2005** Program Vice-Chair, IEEE Robotics and Automation Conference, ICRA’05, Barcelona, May 2005;
- 2003** Chair, Conference Awards Committee, IEEE Int. Conf. Robotics and Automation, ICRA’03 - Taipei, Taiwan ;
- 2002** Program Chair, IEEE joint CSS/RAS Int. Work. on Control Problems in Robotics, Las Vegas, December 2002;
- 2002** Vice Program Chair, IEEE Int. Conf. Robotics and Automation, ICRA’02, Washington, D.C.;
- 2002** Chair, Conference Awards Committee, IEEE Int. Conf. Robotics and Automation, ICRA’03 - Taipei, Taiwan and ICRA’02 - Washington, DC, USA;
- 2000** Organizer and Co-Chair (with Vijay Kumar, Univ. Pennsylvania) of the *IEEE Robotics and Automation Society Mini-Symposium on “Grasping and Contact”*, San Francisco, USA.
- 1998** Organizer and Co-Chair of the IEEE–RAS Workshop on Grasping, Fixturing, and Manipulation (with T. Yoshikawa, J. Burdick), Leuven, BE;
- 1996** Organizer and Co-Chair of the IEEE–RAS Workshop on Minimalism in Robot Manipulation (with K. Goldberg);
- 1995–** Member of the International Program Committee for IEEE Int. Conf. on Robotics and Automation (ICRA) since ’97, IEEE/RSJ Int. Symp. on Robotic Systems (IROS) since ’95, Int. Symp. Robotics Research (2007), other conferences and workshops.

## Research projects

- 2025-2029** Horizon Europe Grant 101189600, “FlexCycle - Flexible robotic solutions for the recycling of soft materials”, Coordinator. (IIT, total budget 7.4MEUR).
- 2025-2029** “JOiNT Lab 2” with Intellimech Bergamo for stable collaboration towards technology transfer and education for industry (IIT, funding 1.3MEUR/yr, 12 years)
- 2022-2026** Horizon Europe Grant 101070596 “euROBIN - European ROBOTics and AI Network” (UNIFI, 376K EUR)



- 2025-2026** European Research Council ERC-POC - Proof of Concept Grant 727536, “V-Soft-Pro”, Coordinator (IIT, Budget 150K EUR)
- 2024-2029** Horizon Heritage Grant 101158046, “AUTOMATA - AUTOMated enriched digitisation of Archaeological liThics and cerAmics” (IIT, Budget 581K EUR)
- 2023-2026** National Recovery and Resilience Plan, ”RAISE - Robotics and AI for Socio-economic Empowerment” Spoke 1: ”Urban Technologies for Inclusive Engagement” Spoke 2: ”Personal and Remote Healthcare” Spoke 4: ”Smart and Sustainable Ports” (IIT, 692K EUR)
- 2022-2026** Complementary National Recovery and Resilience Plan ”Fit4MedRob - Fit for Medical Robotics”, Research initiatives for innovative technologies and paths in the healthcare and assistance sector - PNC0000007 (UniPi, 2054K EUR)
- 2020-2025** “JOiNT Lab” with Intellimech Bergamo for technology transfer and education for industry (IIT, total budget 5MEUR, funding 3MEUR)
- 2023-2026** National Institute of Health, R01 Project “SoftHand Pro@Home”, Mayo Clinic & Arizona State University (ASU);
- 2022-2023** European Research Council ERC-POC - Proof of Concept Grant 727536, “WISH: Wearable Integrated Soft Haptic Display for Prosthetics”, Coordinator (IIT Budget 150K EUR)
- 2019-2025** European Research Council ERC-2018-SyG Synergy 810346 “Natural BionicS - Natural Integration of Bionic Limbs via Spinal Interfacing”, 2019-2025. Co-PIs Dario Farina (Imperial College, London) and Oskar Aszmann (University Hospital, Wien). (IIT budget 3.3 EUR)
- 2021-2024** H2020-EU.2.1.1. grant no. 101016970 “NI Natural Intelligence for Robotic Monitoring of Habitats”, Participant (UNIPI, overall budget: 3053K EUR).
- 2021-2025** H2020-EU.1.2.1. grant no. 964854 “RePAIR Reconstructing the Past: Artificial Intelligence and Robotics Meet Cultural Heritage”, Participant (IIT, overall budget: 3522K EUR).
- 2021-2024** H2020-EU.2.1.1. grant no. 101017274 “DARKO Dynamic Agile Production Robots That Learn and Optimise Knowledge and Operations”, Participant (UNIPI, overall budget: 6997K EUR).
- 2018-2021** H2020-EU.2.1.1. grant no. 780883 “THING subTerranean Haptic INvestiGator”, Participant (UNIPI, overall budget: 4071K EUR).
- 2020-2024** H2020-ICT-2019-2, “SOPHIA Socio-physical Interaction Skills for Cooperative Human-Robot Systems in Agile Production” (UniPi budget: 770 K EUR)
- 2020-2024** H2020-ICT-2019-2 “Reconcycle: Self-reconfiguration of a robotic workcell for the recycling of electronic waste,” Participant (IIT budget: 650K EUR)
- 2019-2020** European Research Council ERC-POC - Proof of Concept Grant 727536, “Soft-Handler: Commercial feasibility of an integrated soft robotic system for industrial handling”, Coordinator (Budget 150K EUR, IIT 71,750 EUR)
- 2018-2022** H2020-ICT-27-2017 - System abilities, SME & benchmarking actions, safety certification Grant no. 780883 “THING - subTerranean Haptic INvestiGator” (UniPi budget: 454 K EUR)
- 2017-2018** European Research Council ERC-POC - Proof of Concept Grant 727536, “SoftHand Pro-H: A Soft Synergy-based Hand Prosthesis with Hybrid Control”, Coordinator (Budget 149,787 EUR, IIT 79,000 EUR)

- 2017-2020** EC H2020 ICT-26-2016-1 - System abilities, development and pilot installations, Grant no. 732737 “ILIAD - Intra-Logistics with Integrated Automatic Deployment: safe and scalable fleets in shared spaces” (UniPi budget: 1.1 M EUR)
- 2017-2019** H2020-MSCA-IF-2016 (Marie Skłodowska-Curie Individual Fellowships) “MIMICS: Electromyography-driven musculoskeletal modelling for biomimetic myoelectric control of prostheses with variable stiffness actuators”, Coordinator, hosting MSC fellow Massimo Sartori (IIT budget: EUR 1,097,293.75 EUR)
- 2015–** Institute of Electrical and Electronics Engineering (IEEE): Editorial Services Agreement, Editor in Chief (UniPi budget 70,000 USD per year)
- 2015–2019** EC H2020 ICT.23.2014, Grant no. 645599 “SOMA - Soft-bodied intelligence for Manipulation”, Scientific Co-Coordinator (UniPi budget 1,617,250.00 EUR)
- 2013-2016** EC FP7-ICT-2011.2.1 project no. 600918 “Pacman: Probabilistic and Compositional Representations of Objects for Robotic Manipulation” (UniPi budget 1,054,944.00)
- 2016-2020** Horizon 2020 2015.ICT.24a Robotics RIA, Grant no. 688857 “SoftPro: Synergy-based Open-source Foundations and Technologies for Prosthetics and Rehabilitation”, Coordinator (IIT budget 1,772,207.50 EUR)
- 2014-2016** National Institute of Health (NIH) R21 Grant 1R21HD081938-01, “Soft Synergy-Based Artificial Hand for Prosthetic Applications”, Principal Investigator (budget IIT 60,000 USD)
- 2014-2016** Mayo Clinic Private Benefactor Grant “Applications of Soft-Hands as Prostheses”, Principal Investigator (budget IIT 650,000USD)
- 2013-2017** EC FP7-ICT-2013-10 project no. 611832 “WALK-MAN: Whole-body Adaptive Locomotion and Manipulation”, Principal Investigator (UNiPI budget 1.210.800,00EUR)
- 2013-2017** EC FP7-ICT-2011-9 project no. 601165 “WEARHAP - WEARable HAPtics for humans and robots” (UniPi budget 987,958.00 EUR)
- 2012–2017** European Research Council Advanced Grant ERC-291166 “SOFTHANDS - A Theory of Soft Synergies for a New Generation of Artificial Hands”, Coordinator (IIT budget 2,279,600 EUR)
- 2011-2015** EC FP7 IP ICT-287513 “SAPHARI, Safe and Autonomous Physical Human-Aware Robot Interaction”, Principal Investigator (UNiPi budget 940,000 EUR);
- 2010-2014** EC FP7 “PLANET - PLAtform for the deployment and operation of heterogeneous NETworked cooperating objects” (UniPi Budget 370,000 EUR).
- 2010–2014** EC FP7 IP project 270350 “ROBLOG - Cognitive Robot for Automation of Logistic Processes”, Principal Investigator (UniPi Budget 840,000.00 EUR)
- 2010–2014** EC FP7 IP project “THE Hand Embodied”, Project Coordinator (overall budget 7.15 M EUR, UniPi budget 1,600,00.00 EUR).
- 2009–2012** EC FP7 project “VIATORS - Variable Impedance Actuation Systems Embodying Advanced Interaction Behaviours”, Principal Investigator (UniPI budget 500,000.00 EUR).
- 2008–2011** EC FP7 project “CHAT - Control of Heterogeneous Automation Systems: Technologies for scalability, reconfigurability and security”, Coordinator (Overall budget 2,300,00.00 EUR, UniPI budget 0.5 M EUR).
- 2010-2012** EC FP7 “EChORD – the European Clearing House for Open Robotics Development, Experiment HANDS.DVT”. Budget: 0.12M EUR (local).
- 2008-2010** Italian Ministry for Education and Research PRIN grant 2007CCRNFA, “Sicurezza per l’Interazione nel Contatto tra Umani, Robot e Ambiente (SICURA)”; Budget: 0.2 M EUR

- 2008** ESA European Space Agency, “ESA Lunar Robotic Challenge”. Budget: 50K EUR;
- 2007–2010** EC FP7 project “ComplexEIT - From nano to large electronic systems”. Pilot projects for cooperation between European Institutes of Technology (EAC/26/7). P.I. on behalf of the European Embedded Control Institute (Overall budget: 1.5M EUR).
- 2006–2009** EC FP6 STREP project “PHRIENDS -Physical Human-Robot Interaction: Dependability and Safety”, Project Coordinator. Budget: 2.1 M EUR (overall), 0.5 M EUR (local).
- 2006–2009** MIUR Interlink project “ICO - International Curriculum Option on Hybrid Systems” (General Coordinator). The project has created a joint curriculum of studies for Ph.D. students in the field of Hybrid Control for Complex, Distributed and Heterogeneous Embedded Systems, among 14 Universities in Europe and the U.S. Recently extended to 17 Universities. Budget: 0.12 M EUR
- 2004–2007** FP6 Integrated Project, Contract IST-2004-004536 “RUNES - Reconfigurable Ubiquitous Networked Embedded Systems”. Budget: 0.31 M EUR;
- 2006–2010** EC FP6 IP “IMMERSENCE - Immersive Multi-Modal Interactive Presence” IST-FET Proactive project. Budget: 0.4M EUR;
- 2005–2006** FP6 EURON PRP “Phridom - Physical Human Robot Interaction in Anthropic Domains” (General Coordinator), Budget: 0.1 M EUR.
- 2002–2005** FP5 E.U. IST 2001-38040 PRESENCE project “TOUCH-HAPSYS - Towards a Touching Presence: High-Definition Haptic Systems” (Scientific co-Coordinator). Budget: 0.63 M EUR;
- 2002–2005** E.U. IST 2001-37170 project “RECSYS: Real-Time Embedded Control of Mobile Systems with Distributed Sensing”. Budget: 0.35 M EUR;
- 2002–2004** MIUR PRIN 095297-002-2002, “Embedded Control of Dynamical Systems with Limited Computational and Communication Resources”;
- 2003–2005** MIUR FIRB RBAU01RY47, “Conflict resolution in decentralized control of air traffic”;
- 2000–2002** CNR Agenzia 2000, “Optimal Control Algorithms for Embedded Systems”, Consortium Coordinator;
- 2000–2003** CNR Progetto Strategico Società della Informazione “Fai-Robot - Towards a Robotic Telaboratory”;
- 2000–2004** Italian Space Agency (ASI) “TEMA – Team-based Exploration by Mobile Agents”, Consortium Coordinator;
- 2000–2002** MURST/ENEA project “SIRO – High Performance Simulation of Mechanical and Robotic Systems”.
- 1999–2001** E.C. TEMPUS project “Edutrac” (Accreditation and Certification In Industrial Metrology);
- 1996–1998** NATO CRG Grant “Motion Planning for Air Traffic Management Systems (ATMS)” (with S. S. Sastry, U.C. Berkeley);
- 1997–1998** Scientific and technological Cooperation Joint project (Poland Ministry for University) “Statistical Methods for evaluation and design of multivariate sensors” (with Ewaryst Rafajlowicz, Univ. Wroclaw).
- 1994–1997** ESPRIT Project “LEGRO: Semi-autonomous legged vehicle for unstructured environments”;

**1993–1994** NSF - CNR Bilateral Research Program “Nonlinear Control Methods for Kinetically Defective Non-Holonomic Systems” (with S.S. Sastry, U.C. Berkeley);

**1990–1992** ONR - CNR Bilateral Research Program on “Whole-Arm and Enveloping Manipulation” (with J.K. Salisbury, MIT - AI Lab);

### Networks of Excellence (as P.I.)

**2008–2012** EC FP7 Network of Excellence, “CONET - Cooperating Objects NETWORK of excellence”. Budget: 0.2 MEur;

**2010–2014** EC FP7 Network of Excellence, “HYCON2 - Highly-complex and networked control systems”. Budget: 3.9MEur (overall), 0.16 MEur (local);

**2004–2008** FP6 Network of Excellence, Contract IST-2004-511368 “HYCON - HYbrid CONTROL: Taming Heterogeneity and Complexity of Networked Embedded Systems”. Budget: 0.3 MEur;

**2004–2008** FP6 Network of Excellence, Contract FP6-2002-507728 “EURON - European Robotics Network”. General Coordinator *ad interim*, Fall 2006;

### Patents

1. “Cella di Carico Universale a Monotrave Cilindrica” Bicchi Antonio, IT1211362(B) (1989-10-18)
2. “Process for measurement of tightening torque of screws, bolts, etc.”, Bicchi Antonio, Nicola Gian Luigi (FIAT Auto S.p.A.) IT patent IT1241173 (B) (1993-12-29).
3. “Method for calibrating intrinsic sensors”, Bicchi Antonio and Granata Francesco, Cons. Naz. Ricerche (CNR), IT patent no. IT1278676 FI95A000108 (1995-05-19)
4. “Contact type pointer device for three-dimensional graphics programs” Bicchi Antonio and Granata Francesco, IT patent no. ITPI94A000025 (1994-09-01);
5. “Universal Cylindrical Loadcell”, A. Bicchi, IT patent no. 1211362, August 1987.
6. “Meccanismo motoriduttore a rigidità variabile e rapidamente controllabile”, A. Bicchi and G. Tonietti, IT patent no. PI2004A000077, October 2004
7. “Mechanism of Motor reduction with variable rigidity and rapidly controllable”, A. Bicchi and G. Tonietti, U.S. patent US7699731 (2004-10-14)
8. “Non-linear elastic mechanism with programmable characteristics” Bicchi Antonio; Catalano Manuel Giuseppe; Grioli Giorgio. Univ Pisa. It. Pat. IT2011PI00057 20110525 (2011-05-25) Priority 2011-05-25; Filed 2011-05-25; Published 2012-11-26.
9. “Procedimento di ricostruzione virtuale di una posa reale di almeno una porzione di corpo umano”, Matteo Bianchi, Antonio Bicchi, Paolo Salaris, Italian Patent 0001410855 (2012-03-01)
10. “Variable Pliability Actuator”, Bicchi Antonio; Catalano Manuel Giuseppe; Garabini Manolo; Grioli Giorgio. Univ DI Pisa, Centro di Ricerca E. Piaggio, U.S. Patent US2012096973, E.U. Patent EP2444207 (2010-10-21)
11. “Underactuated Robotic Hand” Bicchi Antonio; Della Santina Cosimo; Brando Alberto; Piazza Cristina; Catalano Manuel Giuseppe; Grioli Giorgio. Università di Pisa and Fond. Ist. Italiano di Tecnologia, Application number: WO2016IB56468 20161027 Priority number(s): IT2015UB05328 20151102 (2015-11-02)
12. “Artificial Hand”, Bicchi Antonio, Catalano Manuel, Della Santina Cosimo, Grioli Giorgio, Piazza Cristina, Garabini Manolo. Università di Pisa and Fond. Ist. Italiano di Tecnologia, Application number: PCT/IB2017/052684 (2017-05-09) Published on 23 Novembre 2017 with n. WO 2017/199127

13. “Articolazione Prostetica”, A. Bicchi, M. Barbarossa, C. Piazza, M. Catalano G. Grioli, P. Capsi Morales. 01 APRILE 2021 - 102021000008261 ns. rif./our ref.: 15834 A IT 979 / IIT Ref: PT200554. Priority 2021-04-01; Filed 2021-04-01; Published 2022-10-01.
14. “Dispositivo Di Feedback Protesico”, F. Barontini, M. Bianchi, Antonio Bicchi, M. Catalano, G. Grioli, C. Petrocelli, M. Poggiani. 04 MARZO 2021 - 102021000005099 ns. rif./our ref.: 15774 A IT 979. Priority 2021-03-04; Filed 2021-03-04; Published 2022-09-04.
15. “Process Of Interacting With Objects”, A. Bicchi, G. Lentini, M. Catalano, G. Grioli. WO EP US CN JP KR IT IT202100003821A1 Priority 2021-02-19; Filed 2021-02-19; Published 2022-08-19
16. “A Prosthetic Foot With Adaptability In Sagittal And Frontal Planes” A. Ghezzi, A. Bicchi, M. Catalano, G. Grioli, L. Ottusi, M. Maimeri, DoI presentata Maggio 2021 (PT210589).
17. International Patent PCT/IB2021/059616 “Adaptive Robotic Foot”. n. WO2022/084849, Published 28 April 2022.
18. “Logistic device”, WO EP IT WO2021024161A1, Priority 2019-08-07; Filed 2020-08-03; Published 2021-02-11.
19. “A logistic device”, WO EP US JP US20220203542A1, Priority 2019-04-30; Filed 2020-04-29; Published 2022-06-30.

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## Plenary, Keynote and Public Speeches

- 2024** “Learning from Humans How to Manipulate with Compliant, Underactuated, and Environment-driven hands”, Keynote talk at ICRA@40, Rotterdam, NL
- 2024** “Soft Robotics Technologies for Prosthetics and Rehabilitation”, Invited Keynote at HI!Paris Symposium, June 4-5, 2024, Institut Polytechnique de Paris, France
- 2024** “Hands, Artificial hands, Prostheses and Extratheses: how the nervous systems tames complexity”, Keynote Speech, AIFI Int.l Scientific Congress, Nov. 24, 2024, Florence.
- 2024** “What is it like to be a bot?,” Distinguished Speaker Series @Science of Intelligence Cluster of Excellence - Berlin, Germany
- 2023** “Robotics. What comes next?,” Distinguished Guest of the Slovenian-Italian Association, Josip Stefan Institute, Ljubljana, Slovenia.
- 2023** “What is it like to be a bot?,” Plenary Lecture, Philosophy and Mathematics of Situated Agency (Pamosa), Oulu (Finland), June 4-8 2023.
- 2022** “Think Soft: Neuroscience-inspired Soft Robotics Technologies for Prosthetics and Rehabilitation,” Plenary, International NeuroEngineering School, Genoa, Italy.
- 2022** “I-RIM as a model of National Robotics Associations,” Invited Guest Talk at National Competence Center in Robotics, Swiss Robotics Conference Lugano, Switzerland
- 2022** “The Embodied Intelligence Aporia,” Plenary Lecture, Int. Conf. Robotics and Automation ICRA’22, Philadelphia, PA, USA.
- 2022** “What Advances can Soft Robotics bring to Prosthetics and Rehabilitation?” 2022 Summer School on Neurorehabilitation (SSNR2022) Baiona, Spain June 12-17, 2022.
- 2021** “Creating the future: today’s trends for tomorrow’s manufacture” Innovation Talk Panel at the Italian Pavillion of Dubai Expo2020.
- 2021** “Think Soft: From Robotics to Prosthetics and Rehab, how Soft Tech is Changing the Game”, Shirley Ryan Ability Labs Webinar Series, July 26, 2021.

- 2021** Humanoids 2021, Plenary Lecture: “How to design and control naturally moving machines, and why.” July 20, 2021.
- 2021** Munich-i @Automatica Fair “From Robots in Emergency to Robots in Everyday Life”, June 22, 2021.
- 2021** Robotics Today, “Planning and Learning Interaction with Variable Impedance”. May 21, 2021.
- 2021** And& Festival Leuven, “Is there anything robots can’t do?”, April 21, 2021.
- 2021** International Foundation on Robotics Research (IFRR) Global Colloquium “More robots more human”, April 1, 2021.
- 2021** Technology Innovation Institute of the Arab Emirates Seminar “From Robotics to Prosthetics and Back Again” March 10, 2021.
- 2021** Accademia dei Lincei, “Verso la Persona Aumentata: Tecnologia ed Etica delle Sinergie Bioniche”, March 5, 2021
- 2020** Lectio Magistralis to SOGEI Top Management “Robot, Intelligenza Artificiale e Persona: una relazione sempre più stretta”, December 15, 2020.
- 2020** MakerFaire Europe, Groundbreakers - Re:Making the Future, “The future with Robots”.
- 2020** Conference on Robot Learning CORL. Keynote Speech: “From Human-Robot Interaction to Human-Robot Integration”, November 2020
- 2020** Ubiquitous Robots 2020, Plenary Talk: “SymBionics: From Human Robot Interaction to Human Robot Integration”, June 2020
- 2020** Cybathlon Symposium, Keynote speech: “From Collaborative Robotics to Prosthetics and Rehab: How Soft Tech is Changing the Game,” September 2020
- 2020** Stati Generali della Robotica - Universal Robots. Keynote: “Le nuove frontiere della robotica collaborativa: si può programmare senza scrivere codice?”, Novembre 2020
- 2020** Web Marketing Festival - We Make the Future. Mainstage Talk, “Robot per le Persone”, June 2020
- 2020** Euroscience Open Forum (ESOF) “Freedom for Science, Science for Freedom” 2-6 September 2020, Trieste
- 2020** ICRA’20 Opening Plenary Panel “Covid-19: How Can Roboticists Help?”
- 2020** National Academy of Engineering/Computing Community Consortium NAE/CCC Workshop on the Role of Robotics in Infectious Disease Crises. Stage Setting Talk: “What are the needs and roles for robotics in infectious disease crises such as the current COVID-19 pandemic?”
- 2020** Plenary at Innovation Festival WMF “Robots for the People”, Robotica Applicata e Telemedicina (<https://youtu.be/FZABsa5aSpE?t=2812>)
- 2020** Messe Frankfurt/ SPS Italy Workshop “Continuous evolution of industrial robotics”, June 2020
- 2019** A soft synergy model of human manipulation and its applications to prosthetics and rehabilitation. 2019 Summer School on Neurorehabilitation (SSNR2019), Baiona (Spain) September 15-20, 2019.
- 2019** Monde Machine et Monde Vivant - Hommage à Léonard, Institut Français Italia. I Dialoghi del Farnese: l’Uomo-Macchina
- 2018** Plenary Lecture, “Robotics: Body, Intelligence, and Control”, European Control Conference, Limassol, Cyprus, June 2018

- 2018** Tandem Plenary Lecture with Prof. Mark Spong: “Control Challenges and Opportunities in Soft Robotics”, IFAC Conf. Modelling Identification and Control of Nonlinear Systems, Guadalajara, Mexico, June 2018
- 2018** Invited Speech, “Soft Robotics: from the lab to the real world”, Imperial Robotics Forum, Imperial College, London, March 2018
- 2018** Invited Speech, “Soft robotics technologies to implement human motor control lessons in advanced prosthetics for the real world” Int. Symp. on Innovations in Amputation Surgery and Prosthetic Technologies, Wien, May 2018
- 2017** Public Speech, Faraday Seminar Series: “Dagli algoritmi all’intelligenza artificiale alla robotica Due visioni a confronto sul rapporto tra persone e macchine”, with Paolo Ferragina. Regione Toscana, Dec. 2017
- 2017** Public Speech, La Digital Tech: “Robots souples et mains de robots : à la recherche du mouvement fluide”, Rennes, France, Nov. 2017
- 2017** Invited Speech, “Robots: Body, Intelligence, and Control”, Tenth Year celebrations of the Institut des Systèmes Intelligents et de Robotique (ISIR), Sorbonne Universités, Paris
- 2017** Public Speech, “Innovazione e Ricerca: dialoghi e incontri. Un’esplorazione multidisciplinare verso la conoscenza come base per il progresso e lo sviluppo futuro.” Internet Festival, Pisa, 2017
- 2017** ICRA-X Speech “The Quest for Natural Machine Motion”, May 29 - June 3, Singapore.
- 2017** Public Speech, “Robot collaborativi: dalla sicurezza alle prestazioni”, IL PARADIGMA INDUSTRIA 4.0 Applicazioni e implicazioni nel settore AUTOMOTIVE, Pontedera, Oct. 2017
- 2017** Plenary Lecture, ”Robotica: dall’uomo alla tecnologia e ritorno” SAP Executive Summit: Live Business, Le imprese italiane e la rivoluzione 4.0. March 16-17, 2017, Villa d’Este, Cernobbio.
- 2017** Invited Talk at “Life & Robotics” Symposium, Springer Nature Campus, Heidelberg.
- 2016** Plenary Lecture, “On the Soft Synergy Model and Its Applications to Artificial Hands,” 3rd Workshop of the Anthropomorphic Motion Factory: Biomechanics of Antropomorphic Systems Workhsop, LAAS-CNRS, Toulouse, Nov. 24-25, 2016
- 2016** Plenary Lecture, “Soft Robotics for Human Cooperation and Rehabilitation,” IEEE Int. Conf. Advanced Robotics and Mechatronics, Macau, August 2016;
- 2016** Plenary Lecture, “On the Soft Synergy Model and Its Applications to Artificial Hands,” Living Machines, Edinburgh, Scotland, July 2016;
- 2016** Invited Lecture, “Robots: Body, Intelligence, and Control,” Workshop Biological control across scales, Cambridge (UK), June 2016.
- 2016** Invited Lecture, “Soft Robotics for Human Cooperation and Rehabilitation” Opening the new Robotics and Mechatronics Center, German Space Agency, Oberpfaffenhofen, April 2016;
- 2016** Invited Lecture, “Soft Synergy-based Robotics for Prosthetics and Rehabilitation”, Motor Control Summer School, Jerusalem, June 2016;
- 2016** Invited Lecture, “Synergy-based Soft Robotics for Prosthetics and Rehabilitation”, Rehabilitation Robotics Workshop, Arizona State University, Tempe, AZ, February 2016;
- 2016** Invited Lecture, “Body Languages for Human Robot Interaction”, University of California at Berkeley, January 2016;

- 2016** Invited Lecture, “Body Languages for Human Robot Interaction”, Stanford University, January 2016;
- 2016** , Invited Lecture, “Body+Environment=Function. Studying the embodied intelligence equation”, Workshop on Manipulation with the Environment, ICRA 2016;
- 2016** Invited Speech, “Introduction to Robotics: Culture, Science and Technology of the Next Industrial Revolution”, PICTET Headquarters, Geneve, April 2016;
- 2015** Series of six Invited Public Speeches, “Introduction to Robotics: Culture, Science and Technology of the Next Industrial Revolution”, PICTET Bank Meetings Series (Turin, Milan, Genoa, Bologna, Florence, Rome, Lugano) October 2015-January 2016;
- 2015** Plenary Lecture, “Body Languages for Human Robot Interaction”, Human-Friendly Robotics Symposium, Munich, Germany, October 21-23, 2015;
- 2015** Plenary Lecture, “Of Robots, Humans, Bodies and Intelligence”, Human-Robot Interaction Conference, Portland, Oregon, March 2015;
- 2015** Invited Lecture, “Synergies in the control of human and humanoid hands”, NSF Workshop Robotic and Interactive Technologies for Neuroscience and Neurorehabilitation, August 31 - September 2, Arenzano, Genova;
- 2015** Plenary Round Table Speech, “World Haptics Conference: Retrospective and Perspectives”, World Haptics Symposium 2015, June 22-6, Evanston, Chicago, USA;
- 2015** Town Hall Speech “Introduction to the IEEE Robotics and Automation Letters”, ICRA’15, May 28, Seattle, USA;
- 2015** Keynote Lecture, “Soft and Variable Stiffness Robotics”, Natural Machine Motion Initiative Winter School, Rome, March 26, 2015;
- 2014** Invited Lecture, “Complexity, Simplicity, Embodied Intelligence, and Manipulation”, National Days Of Robotics, Paris, October 2014;
- 2014** Plenary Lecture, “Trading off Feedforward and Feedback, Cyber and Physical in the Control of Complex Systems” 7th International Workshop on Communication Technologies for Vehicles (Nets4Cars), Peterhof, Russia, October 2014;
- 2014** Plenary Lecture, “Control Systems, Robotics, and the Neurosciences: A New(?) Convergence”, Intl. Congress on Ultramodern Telecommunications and Control Systems - ICUMT’14, St. Petersburg, Russia, October 2014;
- 2014** Public Speech, “The Body The Hand The Mind”, Hops ’n Bots. Robotic cheetahs, fish, fingers, and bacteria: The coming menagerie of mechanical cohabitants. Adler After Dark series, Adler Planetarium, Chicago, September 2014;
- 2014** Keynote Lecture, “Natural Machine Motion and Embodied Intelligence”, IEEE/RSJ International Conference on Intelligent Robots and Systems – IROS’14, Chicago, September 2014;
- 2014** Plenary Speech, “Muscles for Robots: Understanding, Designing and Controlling Natural Motion with Variable Impedance Actuators”, Motor Control Summer School, Bled, Slovenia, June 26, 2014;
- 2014** Invited Lecture, “Robot Hands, Prostheses, and the KISS rule”, Royal Institute of Technology, Stockholm August 24, 2014;
- 2014** Invited Lecture, “Design and control of a new generation of robot hands” Univ. of Utah, March 2014;
- 2014** Plenary Speech, “Working hard to make a simpler hand: the Pisa-IIT SoftHand”, Worksop on Rehabilitation Robotics, Arizona State University, Tempe, AZ, USA, February 2014.



- 2013** Public Speech, “What do the eye and the hand tell us about the brain, and how this can be useful to people” Andrea Bocelli Foundation Challenges Workshop, December 5, 2013 Boston, USA;
- 2013** Invited Lecture, “An embodied intelligence approach to taming the complexity of hands”, Massachusetts Institute of Technology, December 2013;
- 2013** Invited Public Speech, “Robots for the Society and Societies of Robots”, presented at Utopia Film Festival, Tel Aviv, Israel, September 2013.
- 2013** Invited Public Speech, “Semplice? Non è facile! Mani umane e robotiche, tra cultura scienza e tecnologia”, Festival della Scienza, Genova, October 2013;
- 2013** Plenary Lecture, “Soft and Adaptive Synergies at Work in the Pisa-IIT SOftHand”, Workshop on “Hand synergies - how to tame the complexity of grasping”, Karlsruhe, May 2013;
- 2013** Plenary speaker, EU COST Workshop on Social Robotics, June 2013, Bruxelles;
- 2012** , Invited Speech, “Trading off feedforward and feedback, remote and local in the control of complex interconnected plants”, London Workshop on the Control of Cyber-Physical Systems, London UK, October 21-21, 2012;
- 2012** Invited speech, “Excellence at Small Scale”, Fondazione Carlo Erba, Milano;
- 2012** TEDx Talk, “L’intelligenza nella mano”, September 29, 2012 <http://youtu.be/JZnbgJbqWb0>
- 2012** Workshop Andrea Bocelli Foundation Challenges: “Intelligenza delle mani: dall’uomo alle interfacce aptiche artificiali”, July 6, 2012 Pisa Italy
- 2012** Plenary Speech, RoManSy Conference, Paris, 2012;
- 2012** Plenary Lecture, “Variable Stiffness Actuation, Optimal Control, and Snowclones”, Workshop on Variable Stiffness Actuation, St. Paul, MN, USA, May 2012;
- 2011** Invited Speech, Robotics Colloquium: Down to Earth, DLR - German Space Agency, Munich, Germany, November 2011 <http://www.youtube.com/watch?v=S0ur17M47qo>
- 2011** Keynote Speech, Summer School on Impedance, Frauenchiemsee, Bavaria, Germany, July 2011 <http://www.youtube.com/watch?v=UaUE7CmInkc>
- 2011** Invited Speech, Royal Society Theo Murphy Meeting on Active Touch Sensing, Kavli Center, Buckinghamshire, UK, February 2011;
- 2010** Plenary Speech, “Grasping and Manipulating with an Embodied Hand”, Int. Conf. Applied Bionics and Biomechanics - ICABB Venice, October 2010;
- 2010** Keynote Speech, Robotics International Summer School, Dubrovnik, Croatia, June 2010;
- 2010** Keynote Speech, “Towards a Society of Robots Behaviors, Misbehaviors, Consensus and Security”, Intl. Congress on Ultramodern Telecommunications and Control Systems - ICUMT’10, Moscow, October 2010;
- 2010** Keynote Speech, “Variable Impedance Actuators for Adaptive Robotics”, SCHUNK Intl. Expert Days in Service Robotics, Hausen, Germany, Feb. 24-25, 2010;
- 2010** Invited Public Speech, “Men, Robots, and Other Strange Creatures”, Festival delle Scienze - Tra possibile e Immaginario, Auditorium - Parco della Musica, Rome, January 15, 2010;
- 2009** “Towards a Society of Robots: Robot Behaviors, Misbehaviors, and Agreements”, Celebrating 50 Years of Robotics, University of Pennsylvania, Philadelphia, December 11, 2009;
- 2009** Invited Public Speech, “Robots for Physical Interaction with Men: Performance and safety”, HiTechExpo, Milan, November 2005;
- 2009** Invited Public Speech, “Robots Ever Close to Humans”, Festival della Scienza, Genova, October 25, 2009;

- 2009** Plenary Speech “Variable Impedance Actuators for Safety, Adaptivity, and Efficiency in physical Human-Robot Interaction”, German Workshop on Robotics GWR2009, June 9 and 10, Braunschweig, Germany;
- 2008** Plenary Speech, “Variable Impedance Actuators for Safe and Effective Physical Human-Robot Interaction”, 5th Intl. Conf. on Ubiquitous Robots and Ambient Intelligence (URAI 2008), Seoul, Korea, November 2008;
- 2008** Plenary Speech, “Mechanical and Control Co-Design for Intrinsic Safety in Physical Human-Robot Interaction”, IEEE-IARP Int. Workshop on Technical Challenges for Dependable Robots in Human Environments, Pasadena, May 2008;
- 2008** Plenary Speech, “Physical Human-Robot Interaction: Dependability, Safety, and Performance”, Tenth Intl. Workshop on Advanced Motion Control, Trento, March 2008;
- 2005** Invited Public Speech, “Decentralized Cooperative Conflict Resolution Among Multiple Autonomous Mobile Agents”, Scientific Week Inauguration at ITAM (Instituto Tecnológico Aut6nomo de M6xico), M6xico City.
- 2005** Invited Distinguished Lecture, “Safe and Fast Robot Design for Physical Human Robot Interaction”, Jornadas Nacionales de Robotica, Santander, Spain;
- 2005** Invited Speech, “Physical Human-Robot Interactions: Dealing with the Safety–Performance Trade–Off in the Mechanical/Control Co-Design”, Mechatronic Seminar Series, ETH Zurich;
- 2005** Distinguished Lecture, “Safe and Fast Robot Design for Physical Human Robot Interaction”, Jornadas Nacionales de Robotica, Santander, Spain;
- 2001** Keynote Speech, “Tactile Flow”, Eurohaptics 2001, Birmingham, UK;
- 1997** Plenary Panel “Grand Challenges in Robotics”, IEEE Int. Conf. on Robotics and Automation, Albuquerque, NM, USA;
- 1996** Distinguished Lecture “A Telelaboratory for Nonholonomic Motion Planning” HEROS (Hazardous Environment Robots and Systems) Workshop, Barcelona, SP;
- 1993** B.E.S.C. Lecture, “On the closure properties of robotic grasping”, Univ. California at Berkeley, 1993.
- 1992** Plenary Speech, “Robotic Manipulation and Grasping”, Int. Fed. Theory of Machines and Mechanisms (IFToMM) Symposium, Nagoya, JP;

## Doctoral Students

- Domenico Prattichizzo** Ph.D. student, 1991–1994. Academic career in Robotics. Full Professor at Universit6 di Siena; IEEE Fellow; Editor in Chief, IEEE Trans. on Haptics;
- Andrea Balluchi** Ph.D. student, 1992–1996. Professional career in automotive research for industry. Co-founder and President, Pure Power Control s.r.l.;
- Alessia Marigo** Ph.D. student, 1995–1999. Research career in Applied mathematics and Automatic Control. Researcher at the Istituto per le Applicazioni del Calcolo “M. Picone”, C.N.R., Italy. High-School Educator.
- Pasquale Scilingo** Ph.D. student, 1996-1999 (co-supervised). Full Professor at Universit6 di Pisa;
- Lucia Pallottino** Ph.D. student, 1999-2002. Full Professor at Universit6 di Pisa, Director of Centro “E. Piaggio”;
- Luigi Palopoli** , Ph.D. student at Scuola Superiore S. Anna, Pisa (co-supervised), 1999–2002. Full Professor at Universit6 di Trento;

- Gianfranco Parlange** , M.S. student in Pisa, Academic career in Automatic Control and Robotics. Associate Professor at University of Lecce,
- Giuseppe Notarstefano** , M.S. student in Pisa. Full Professor at Alma Mater, Università di Bologna. Holder of an ERC Starting Grant.
- Fabio Pasqualetti** , M.S. student in Pisa. Academic career in Automatic Control and Robotics. Associate Professor at University of California, Riverside.
- Pierpaolo Murrieri** , Ph.D. student, 2000–2003. Professional career in software industry. CTO Capability Manager, Leonardo, Italy
- Stefania Pancanti** , Ph.D. student, 2001–2004. High-School Educator.
- Giovanni Tonietti** , Ph.D. student, 2002–2005. Finalist, G. Giralt Ph.D. Thesis Award. Professional career in research for automotive industry. CTO at MMI (micro surgical instruments);
- Nicola Sgambelluri** , Ph.D. student, 2002–2005. Professional career in industrial research. Currently at Pentair Water Italy, and co-founder of Adatech srl, Italy;
- Daniele Fontanelli** , Ph.D. student, 2003–2006. Academic career in Robotics. IEEE Fellow, Full Professor at Università di Trento;
- Bruno Picasso** , Ph.D. student at Scuola Normale Superiore, Pisa, 2003–2006. High-School Educator
- Vincenzo Scordio** , Ph.D. student, 2004–2008. Professional career in research for industry. Currently co-owner of spin-off consultancy firm in for industrial automation;
- Antonio Danesi** , Ph.D. student, 2004–2008. Professional career in space research. Project manager at European Space Agency;
- Emanuele Mazzi** Ph.D. student, 2006–2009. Professional career in research for automotive industry. Co-founder and Administrator of spin-off company Pure Power Control s.r.l.;
- Adriano Fagiolini** Ph.D. student, 2005–2009. Assistant Professor, University of Palermo;
- Soumen Sen** Ph.D. student, 2005–2009. Researcher at Robotics and Automation Division, Central Mechanical Engineering Research Institute, Durgapur, India;
- Riccardo Schiavi** Ph.D. student, 2006–2009. Director, Robotics Reserach Division, Huawei Italy;
- Nevio Dubbini** Ph.D. student, 2007–2011. CEo at spin-off consulting firm;
- Giorgio Grioli** Ph.D. student, 2007–2011. Co-founder, *qbrobotics s.r.l.*, spin-off company. Researcher at IIT;
- Paolo Salaris** Ph.D. student, 2007–2011. Reseracher INRIA Sophia Antipolis. Associate Professor, Università di Pisa;
- Felipe Belo** Ph.D. student, 2007–2011. CTO at Createc Robotics, UK;
- Matteo Bianchi** Ph.D. student, 2008–2012. Associate Professor at University of Pisa;
- Simone Martini** Ph.D. student, 2008–2012. Entrepreneur, Florence;
- Manuel Catalano** Ph.D. student, 2009–2013. Recipient of the “G. Giralt Award” for Best Ph.D. thesis in Robotics. Researcher at IIT, Genova;
- Alessandro Serio** Ph.D. student, 2009–2013. R&D Designer, CMC Marine;
- Arash Ajoudani** Ph.D. student, 2010–2014. Finalist, G. Giralt Award. IEEE RAS Early Career Award, 2021. ERC Starting Grant. Tenured Researcher at IIT, Genova;
- Manolo Garabini** Ph.D. student, 2010–2014. Associate Professor at University of Pisa;

- Vinicio Tincani** Ph.D. student, 2010–2015; Currently Fellow at JOiNT Lab, Bergamo;
- Alexandra Velasco Vivas** Ph.D. student, 2011–2015. Professor at the Universidad Militar Nueva Granada, Bogotá, Colombia.
- Alessandro Altobelli** Ph.D. student, 2011–2015. Recipient of the “Eurohaptics Award” for Best Ph.D. thesis in Robotics, 2015. Employed at RACE, Culham, UK.
- Manuel Bonilla** Ph.D. student, 2011–2015. Currently employed in private industrial research and innovation;
- Edoardo Farnioli** Ph.D. student, 2011–2015; Project Manager at Dyson Robotics, UK;
- GianMaria Gasparri** Ph.D. student, 2012–2016. Fabbrica Machinale, Pisa;
- Hamal Marino** Ph.D. student, 2012–2016. Project Manager at Aeolus Robotics, Austria;
- Mirko Ferrati** Ph.D. student, 2012–2016. Project Manager at Aeolus Robotics, Austria;
- Alessio Rocchi** Ph.D. student, 2012–2016. Senior Software Engineer, Cruise, CA, USA;
- Alessandro Settimi** Ph.D. student, 2013–2017; Entrepreneur and CEO of Proxima Robotics, Italy;
- Edoardo Battaglia** Ph.D. student, 2014–2018; Professor at University of Utah;
- Matteo Rossi** Ph.D. student, 2014–2018. Currently in R&D in Alstom, Bologna;
- Glenn Mathijssen** Ph.D. Student, Co-Tutele with Prof. B. Vanderborght, Vrije Universiteit Brussels, 2014–2018. Currently CEO of Alberts, Bruxelles, BE;
- Tobia Marcucci** M.Sc. student, 2015; Currently Professor at UC Santa Barbara;
- Simone Ciotti** Ph.D. student, 2015–2019. Currently with Oculus Rift, USA;
- Marco Laghi** Ph.D. student, 2015–2019. Currently employed in R&D in SACMI SpA, Italy
- Cristina Piazza** Ph.D. student, 2015–2019. Recipient of the award for Best Ph.D. Thesis in Engineering and Architecture at the University of Pisa, 2019. Currently Professor at Technical University Munich.
- Sariah Mghames** Ph.D. student, 2015–2019. Currently postdoc in Lincoln Univ.
- Cosimo Della Santina** Ph.D. student, 2015–2019. Currently Professor in Delft Univ. Recipient of the “G. Giralt Award” for Best Ph.D. thesis in Robotics. IEEE RAS Early Career Award, 2023. ERC Starting Grant, 2024.
- Antonio Di Lallo** Ph.D. student, 2015–2019. Currently researcher at New York University, USA.
- Franco Angelini** Ph.D. student, 2016–2020; Recipient of the 2020 SIDRA award for the Best Italian Ph.D. Thesis in Automatica. Currently Researcher in Pisa
- Giuseppe Averta** Ph.D. student, 2016–2020; Recipient of the “G. Giralt Award” for Best Ph.D. thesis in Robotics. Currently Researcher in Turin
- Andrea Ciullo** Ph.D. student, 2016–2020; Currently employed in a startup
- Simone Fani** Ph.D. student, 2016–2020; Currently postDoc in Arizona State University, USA
- Anna Mannucci** Ph.D. student, 2016–2020; Currently employed in a Swedish robotics company
- Gianluca Lentini** Ph.D. student, 2017–2021. Currently postdoc, startupper;
- Riccardo Mengacci** Ph.D. student, 2017–2021. Currently employed in a Dutch robotics company
- Simon Lemerle** Ph.D. student, 2017–2021. Currently employed in a French company
- Chiara Gabellieri** Ph.D. student, 2017–2021;

**Gemma Bettelani** Ph.D. student, 2017–2021. Currently post-doc at S.S.U.P. S.Anna

**Federico Massa** Ph.D. student, 2017–2021;

**Matthew Jose Pollayl** Ph.D. student, 2018–2022. Currently employed in industry;

**George Jose Pollayl** Ph.D. student, 2018–2022. Recipient of the award for Best Ph.D. Thesis in Engineering and Architecture at the University of Pisa, 2022. Currently employed in industry;

**Simone Monteleone** Ph.D. student, 2018–2022.. Currently Post-Doc at IIT;

**Patricia Capsi** Ph.D. student, 2018–2022. Recipient of the ABB/IEEE Italy Section 2022 Award to the best Ph. D. Thesis in Technology. Currently Post-Doc at T.U.M Munich, Ge;

**Domenico Mura** Ph.D. student, 2018–2022. Currently Post-Doc in CNR - Antarctic base expedition;

**Federica Barontini** Ph.D. student, 2018–2022. Recipient of the “EuroHaptics Award” for Best Ph.D. thesis in Haptics, and of the Recipient of the 2023 SIDRA award for the Best Italian Ph.D. Thesis in Automatica. Currently Post-Doc at IIT, startupper;

**Grazia Zambella** Ph.D. student, 2019–2023. Currently post-doc associate in Univ. Vienna;

**Alessandro Palleschi** Ph.D. student, 2019–2023. Finalist, G. Giralt Award 2024. Currently employed in Industry.

**Elisa Stefanini** Ph.D. student, 2020–2024. Currently entrepreneur in her own startup company.

**Fanyi Kong** Ph.D. student, 2020–2024;

**Michele Pierallini** Ph.D. student, 2020–2024. Finalist, G. Giralt Award. IEEE RAS Early Career Award, 2025. Currently post-doctoral fellow at University of Pisa.

**Olga Napolitano** Ph.D. student, 2020–2024. Currently Lecturer in Control Engineering at Kingston University, UK

**Lorenzo Pajola** Ph.D. student, 2021–2026;

**Maddalena Feder** Ph.D. student, 2021–2025;

**Alessia Ivani** Ph.D. student, 2021–2025;

**Valeria Sarno** Ph.D. student, 2021–2025;

**Marco Baracca** Ph.D. student, 2021–2025;

**Giulia Pagnanelli** Ph.D. student, 2022–2026; Recipient of the ABB/IEEE Italy Section 2022 Award to the best Masters Thesis in Technology.

**Giorgio Simonini** Ph.D. student, 2022–2026;

**Giuseppe Milazzo** Ph.D. student, 2022–2026;

**Matteo Crotti** Ph.D. student, 2022–2026;

**Giuseppe Infantone** Ph.D. student, 2022–2026;

**Eleonora Fontana** Ph.D. Student, 2022–2026;

**Sandhya Chandrasekaran Lakshmi** Ph.D. student, 2023–2027;

**Gianmarco Cei** Ph.D. student, 2023–2027;

#### Post-Doctoral Associates:

**Yacine Chitour** (Ph.D. Rutgers Univ.), post-doc in 1995–1996. Currently Professeur à l’Université Paris-Sud 11

- Frederic Gouaisbaut** (Ph.D. École Centrale de Lille), post-doc in 2001-2002. Currently researcher at Laboratoire d'Architecture et d'Analyse des Systèmes (LAAS-CNRS) and Maître de Conférences at the Université Paul Sabatier, Toulouse;
- Antoine Chaillet** (Ph.D. Université Paris Sud), post-doc in 2006–2007. Currently Associate Professor at SUPÉLEC (Ecole Supérieure d'Électricité), Paris;
- Sung Hoi Huh** , (Ph.D. Korea University, Seoul) post-doc in 2005-2007. Currently Researcher at Human-friendly Welfare Robot System Engineering Research Center (HWRS-ERC) of Korea Advanced Institute of Science and Technology (KAIST).
- Luca Greco** (Ph.D. Università di Pisa). Post-doc 2007-2009. Currently Associate Professor at Université Paris Sud, Gif-sur-Yvette, France;
- Francesca Irene Cavallaro** (Ph.D. Scuola Normale Superiore, Pisa). Post-doc 2008-2009. Currently Scientific Staff, Department of Neuroengineering, Fatronik-Tecnalia Foundation, San Sebastian, Spain;
- Roberto Filippini** (Ph.D. Univ. Pisa). Post-doc 2008-2009. Currently Risk Manager MTA Medical Device Affairs, EBG MedAustron GmbH
- Huifang Elizabeth Wang** (Ph.D. 2008 Beijing University of Technology, China), post-doc 2009-2012;
- Tomas Menard** (Ph.D. 2011 Université de Lille, France), postdoc since 2011-2012;
- Sasha Blue Godfrey** (Ph.D. 2012 Catholic University of America, Washington D.C., U.S.A.) post-doc since 2012;
- Elif Hocaoglu** (Ph.D 2014, Sabanci University - Istanbul, Turkey. Now Ass. Prof., Istanbul Medipol University, Istanbul.)
- Yongtae Kim** (Ph.D. 2017, Seoul National University, Korea. Now with Toyota Inc.)
- Francesca Negrello** (Ph.D. 2017, University of Genoa. Now at IIT JOiNT Lab Genoa)
- Anna Pace** (Ph.D. 2020, Salford University, UK. Now at IIT SoftBots Lab)

## Competitions

- 2021 Scientific Coordinator, AlterEgo entry at the ANA Avatar XPrize, Florida 2021.
- 2021 Scientific Coordinator, SoftHand Pro Team entry at the Cybathlon Championship for Athletes with Disabilities, Zurich 2021. Silver medal.
- 2017 Coordinator, SoftHand Team entry at Robotic Grasping And Manipulation Competition at IROS2016 (winning team).
- 2016 Coordinator, SoftHand Pro Team entry at the Cybathlon Championship for Athletes with Disabilities, Zurich, 2017.
- 2015 Co-leader with N. Tsagarakis of the Walk-Man entry in the DARPA Robotics Challenge (DRC), Pomona, CA, June 2015.
- 2008 Tutor of the “Lunatics” team of the University of Pisa in the ESA European Lunar Robotic Challenge held on mount Teide on Tenerife Island, October 2008 (silver medal).

## Consulting

A. Bicchi is or has been consulting for industrial firms such as Pictet Partners Bank, Gerresheimer GmbH, Ferrari GeS F1, FIAT Auto S.p.A., Galileo Avionica, Intecs HRT, Cozzani Srl, Fioravanti Progetti, etc.. Among the notable outcomes are joint patents with FIAT Auto, and algorithms for active differential control implemented in racing F1 cars in the winning season 2007.

## Miscellanea

- **Blurb:** Author of back-cover endorsement for the textbook “Robotics: Modelling, Planning and Control” by Bruno Siciliano, Lorenzo Sciavicco, Luigi Villani and Giuseppe Oriolo, Springer, 2008;
- **Blurb:** Author of back-cover endorsement for the textbook “Planning Algorithms”, by Steve Lavalle, Cambridge University Press, 2006;
- **External Ph.D. Referee:** Served as external member in the Ph.D. evaluation committee of many graduates, including Martin Pfanne (DLR, 2021), Mathilde Legrand (ISIR, 2021), Manuel Aiple (Delft Un., 2021), V. Vuskovic (ETH, 2001), P. Ogren (KTH, 2003), A. Speranzon (KTH, 2006), A. Jardon Huete (Madrid, 2006), J. Cordella (Barcelona, 2007), Dmitry Kaynov (Madrid, 2009), Michael Van Damme (Bruxelles, 2009), Bakir Lacevic (Milano, 2010), Matteo Laffranchi (Sheffield, 2011), Romain Michalec (Paris 6, 2011);