

FULVIO MASTROGIOVANNI IN BRIEF

EDUCATION

2008. **PhD** in Bioengineering, Materials Science and Robotics from the University of Genoa, Italy.
2003. **Laurea Degree** in Computer Engineering from the University of Genoa, Italy (final grade: 108/100).

ACADEMIC POSITIONS

2018 – present. **Associate Professor** at the University of Genoa, Italy (National Scientific Habilitation to the functions of Full Professor in sector 09/H1 obtained on 09/09/2019 and valid until 09/09/2025).
2014 – present. **Affiliate Associate Professor** at the Center for Intelligent Robotics, Japan Advanced Institute of Science and Technology, Nomi, Japan
2020. **Visiting Professor** at the Pontificia Universidad Catolica del Peru, Lima, Peru.
2014. **Visiting Professor** at the Japan Advanced Institute of Science and Technology, Nomi, Japan.
2014. **Visiting Professor** at Keio University, Tokyo, Japan.
2013. **Visiting Scholar** at the Karlsruhe Institute of Technology, Karlsruhe, Germany.
2012. **Visiting Professor** at Shanghai Jiao Tong University, Shanghai, China.
2011 – 2018. **Assistant Professor** at the University of Genoa, Italy.
2011. **Visiting Professor** at the Asian Institute of Technology, Bangkok, Thailand.
2009 – 2011. **Post-doc Research Associate** at the University of Genoa, Italy.
2004 – 2005. **Research Associate** at the University of Genoa, Italy.

ACADEMIC SERVICE

2020 – present. **Deputy Chancellor for International Affairs** of the University of Genoa, Italy.
2019 – present. **Contact Person**, Heritage Network Association, EU-India.
2019 – present. **Program Coordinator** of the English-taught MSc in Robotics Engineering at the University of Genoa, associated with the Erasmus Mundus European Master on Advanced Robotics Plus and the Erasmus+ Japan-Europe Master on Advanced Robotics consortia.
2017 – present. **Member**, Scientific Board of the Italian School on Advanced Science in Kyoto, Japan.
2016 – present. **Member**, Board of the PhD School in Bioengineering and Robotics, University of Genoa, Italy.
2014 – present. **Team Coordinator**, TheEngineRoom, University of Genoa, Italy.
2018 – 2020. **Member**, Admission and Review Board, Digital Tree Startup Incubator, Genoa, Italy.
2017 – 2020, **Member**, Commission for International Relationships of the University of Genoa, Italy.
2014 – 2019. **Team Coordinator**, Joint Lab between the University of Genoa, Italy, and the Japan Advanced Institute of Science and Technology, Japan.
2017 – 2019. **Member**, Board of Directors of Italian Association for Artificial Intelligence, Italy.

ORGANIZATION OF SCIENTIFIC EVENTS AND INITIATIVES

2020. **Awards co-Chair** for IEEE RO-MAN 2020.
2019. **Workshops and Tutorials co-Chair** for IEEE RO-MAN 2019.
2018. **Program co-Chair** for IEEE RO-MAN 2018.
2017. **Workshops and Tutorials co-Chair** for IEEE RO-MAN 2017.
2017. **Industry and Exhibitions co-Chair** for ERF 2017.
2016. **Exhibitions Chair** for IEEE-RSJ IROS 2016.
2016. **Workshops and Tutorials Chair** for IEEE RO-MAN 2016.
2015. **EU Program Chair** for IEEE RO-MAN 2015.
2014. **EU Program Chair** for DARS 2014.
2013. **Program co-Chair** for URAI 2013.
2013. **EU Program Chair** for IEEE RO-MAN 2013.
2012. **Information & Automation co-Chair** for IEEE CASE 2012.
Served as **Senior** or **Associate Editor** for 3 Q1 journals, and **co-Organizer** of 5 Special Issues in Q1 journals.
Co-Organizer of 5 international workshops co-located with major Robotics events, and 1 international PhD school.
Routinely served as **Associate Editor** for AAAI, ICRA, IROS, IJCAI, RO-MAN, RSS, and **Member of the Program Committee** of major international conferences in Artificial Intelligence and Robotics.

PARTICIPATION TO FUNDED RESEARCH PROJECTS IN EDUCATION

2020 – present. Ulyseus. **Local Coordinator**. Erasmus European Universities, 4.9 M€.
2019 – present. JEMARO. **Local Coordinator**. Erasmus+, 1.7 M€.
2015 – 2020. EMARO. **Key Person**, later **Local Coordinator**. Erasmus Mundus, 1.8 M€.

TEACHING ACTIVITIES

2020 – present. “**Artificial Intelligence for Robotics II**” (3 out of 5 ECTS credits), MSc in Rob. Eng.

2020 – present. “**Ambient Intelligence**” (2 out of 4 credits), MSc in Rob. Eng.
2019 – present. “**Informatica per l’Ingegneria Industriale**” (3 out of 6 credits), BSc in Mech. Eng..
2014 – present. “**Software Architectures for Robotics**” (2 credits), Ecole Centrale de Nantes, France.
2009 – present. “**Software Architectures for Robotics**” (5 credits), MSc in Rob. Eng.
2015 – 2021. “**Fondamenti di Informatica**” (5 out of 9 credits), BSc in Comp. Eng., University of Genoa, Italy.
2017 – 2020. “**Social Robotics**” (2 out of 4 credits), MSc in Rob. Eng.
2012 – 2015. “**Fondamenti di Informatica**” (12 credits), BSc in Comp. Eng., University of Genoa, Italy.
Supervised or co-supervised **12** PhD students, as well as **55** MSc students.

RESEARCH STATEMENT

My research activity lies at the intersection of Artificial Intelligence and Robotics, and is focused on scenarios related to human-robot interaction or collaboration. To this aim, I explore the use of different sensing modalities, semantic-oriented data processing techniques, knowledge representation and reasoning approaches, as well as action strategies to increase robots’ autonomy and intelligence. All these aspects are integrated in the design of state-of-the-art software architectures for robots. Furthermore, I am deeply interested in innovative models of cognition and computation, and in their use to design the robots of the future.

PARTICIPATION TO FUNDED RESEARCH PROJECTS IN RESEARCH

2022 – present. DynaVolc. **Co-Principal Investigator**. Italian PRIN funding scheme, 0.9 M€
2019 – present. InDex. **Co-Principal Investigator**. H2020, CHIST-ERA, 1.1 M€.
2018 – present. ASH^2. **Key Person**. Bilateral Italy-Israel International Cooperation, 0.2 M€.
2020 – 2021. MYWAI4ROBOTICS. **Local Coordinator**. H2020, DIH, 0.3 M€.
2017 – 2020. CARESSES. **Key Person**. H2020, 2.0 M€.
2013 – 2015. CloPeMa. **Key Person**. FP7, 1.7 M€.
2011 – 2014. SHELL, **Technical Coordinator**. Made in Italy – Industria 2015, 1.0 M€.
2009 – 2012. ROBOSKIN. **Management Coordinator**. FP7, 3.1 M€.
Established research collaboration with many **universities and research centers worldwide**.

TECHNOLOGY TRANSFER

2020 – present. **Founder**, Chief Technical Officer, Intra-Operative Surgical Research srl.
2018 – present. **Artificial Intelligence Advisor**, HIRO srl.
2015 – present. **Founder**, Chief Technical Officer, and later Chief Research Officer, Teseo srl.
Established formal cooperation agreement schemes with many **international companies and startups**.

HONORS, AWARDS, INVITATIONS

2020. **Best Paper Award Finalist** at HFR 2020.
2012. The **2012 IFSA Award** for Young Scientist at FedCSIS 2012.
2010. **Best Paper Award** at IEEE RO-MAN 2010.
2008. **Invited paper** at ISUC 2008.
2008. **Best Paper Award** at DARS 2008.
Many additional awards for the work done jointly **with the startup companies** Teseo srl and HIRO srl.
Routinely given **invited talks** at PhD schools, workshops, universities and research centers, and scientific events.

PUBLICATIONS

Outcomes (on 29/08/2022): **186** publications, out of which **1** edited book, **5** as editorials, **53** in international journals, **22** in book chapters, **101** in international conferences, symposia, and workshops, and **4** patents.

- Co-author of **22** Q1 journal papers according to Scimago Journal Rank (year 2022) in the subject area “Computer Science”, **16** out of which in the period 2016 - 2022.
- Co-author of **36** papers in conference proceedings in such top or very good venues as CDC, FUZZ-IEEE, ICRA, IJCAI, IROS, ISER, ISRR, LPNMR, RO-MAN.

Impact: **2239** citations and h-index **28** (on Google Scholar), **1347** citations and h-index **22** (Scopus).