

Curriculum Vitae

Assoc. Prof. Giovanni Indiveri

February 12th, 2026

Personal data

Name: Giovanni Indiveri

Age: born in Genova, Italy [REDACTED], 1970

Civil status: Italian citizen, [REDACTED]

Home Address: [REDACTED] Genova, Italy.

Education: Degree (Italian "Laurea") in Physics, Ph.D. (Italian "Dottorato di Ricerca") in Electronic Engineering and Computer Science.

Languages: Italian (mother tongue), English (fluent, Elementary education in San Diego, CA, U.S.A.), German (basics).

Current Position: Associate Professor in Systems and Control Engineering (Italian "Professore Associato in Automatica") at the Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi - DIBRIS (Department of Informatics, Bioengineering, Robotics, and Systems Engineering) of the University of Genova, Italy.

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Curriculum studiorum

- 1988 High School Degree (Italian "Maturità Scientifica", final vote 50/60);
- 1995 Degree in Physics (Italian "Laurea", final vote 102/110) at the University of Genova discussing a thesis regarding a statistical mechanics model and Montecarlo simulation of 2D cluster growth phenomena with long range interactions in Langmuir-Blodgett phospholipid monolayers. Supervisors Prof. Andrea C. Levi and Prof.ssa Alessandra Gliozzi, Department of Physics, University of Genova, Italy.

– 1999 Ph.D. (Italian "Dottorato di Ricerca") in Electronic Engineering and Computer Science from the Department of Communications, Computer and System Sciences, DIST, University of Genova under the supervision of Prof. Giuseppe Casalino.

Current Position and status

- From February 15th, 2025 I am serving with a one year agreement as Deputy Editor of the journal Ocean Engineering published by Elsevier Ltd. In December 2025 my term as Deputy Editor has been extended to the 31st December of 2028.

<https://www.sciencedirect.com/journal/ocean-engineering>

- Since May 31st, 2021 I am recipient of the "Abilitazione Scientifica Nazionale" (Habilitation, valid nine years) for full professorship (prima fascia) in Systems and Control Engineering (Automatica, settore concorsuale 09/G1). This is a necessary prerequisite to compete for full professorship in Italian universities.

- Since May 19th, 2021 I am serving as Associate Editor for Control Engineering Practice, published by Elsevier Ltd.

<https://www.sciencedirect.com/journal/control-engineering-practice>

- Since February 3rd, 2021 I am the Director of the Interuniversity Centre of Integrated Systems for the Marine Environment (ISME, <http://www.isme.unige.it/>). The term ends on 2nd February 2024.

- Since December 1st, 2019 I am Associate Professor in Systems and Control Engineering (Italian "Professore Associato in Automatica") at the Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi - DIBRIS (Department of Informatics, Bioengineering, Robotics, and Systems Engineering) of the University of Genova, Italy.

Previous Research and Academic Positions

- From February 1st, 2011 to November 30th, 2019 Associate Professor in Systems and Control Engineering (Italian "Professore Associato (Confermato) in Automatica") at the Faculty of Engineering, Dipartimento Ingegneria Innovazione, of the University of Salento (formerly University of Lecce), Italy (eligible ("idoneo") for the same position since December 12th, 2010).

- From March 8th, 2017 to March 7th, 2020 Affiliated as "Associato con Incarico di Ricerca" to the Institute of Intelligent Systems for Automation (ISSIA) of CNR (Consiglio Nazionale delle Ricerche).

<http://www.issia.cnr.it/>

The CNR ISSIA institute has been closed on May 11th, 2018.

- From 2004 to November 30th, 2019: Member of CoNISMa, National Interuniversity Consortium For Marine Sciences (Consorzio Nazionale Interuniversitario per le Scienze del Mare), unit of Lecce.
- From December 15th 2001 to January 31st 2011 Assistant Professor ("Ricercatore") in Systems and Control Engineering at the DII Department of Innovation Engineering, "Dipartimento di Ingegneria dell'Innovazione", Faculty of Engineering, University of Salento (formerly University of Lecce), Italy.
- From July 1st, 2011 to 31st December 2014: Associated Member of the CNR Institute INO - Istituto Nazionale di Ottica.
- 15th January 1999 - 31st December 2001. Post-doc researcher at the FhG Fraunhofer (GMD, Gesellschaft fuer Mathematik und Datenverarbeitung up to July 2001, then FhG) Institute for Intelligent Autonomous Systems (AiS) in Sankt Augustin, Germany.
 - January 1999 - March 2000 member of the Underwater Robots Team of GMD - AiS.
 - May 1999, visiting Researcher at GMD - JRL (Japan Research Laboratory), Kitakyushu, Japan (<http://www.gmd.gr.jp>).
 - April 2000 - December 2001 member of the Behaviour Engineering (BE) Team of AiS and AiS Scientific Responsible for Underwater Robotics.
- May - June 2003 Visiting Professor at the University of Applied Sciences Bonn Rhein Sieg (Fachhochschule Bonn Rhein Sieg) Sankt Augustin, Germany as Professor of a 60 hours course on "Control Theory for Mobile Robots" within the "International Master Course in Autonomous Systems" of the Bonn-Aachen International Centre for Information Technology B-IT. *This item is also listed in section "Research visits and Invited Talks".*
- 1 - 31 August 2006, Visiting Professor at IUB - International University Bremen (now Jacobs University Bremen), Bremen, Germany. *This item is also listed in section "Research visits and Invited Talks".*
- 1 - 31 January 2025 awarded from Deutscher Akademischer Austauschdienst e.V. (DAAD) (<https://www.daad.de/>) a one month visit to the University of Rostock, c/o Prof. Dr.-Ing. Torsten Jeansch, Lehrstuhl Regelungstechnik, Institut für Automatisierungstechnik. DAAD Funding programme: Research Stays for University Academics and Scientists, 2024 (ID 57698956). *This item is also listed in section "Research visits and Invited Talks".*

Awards

Recipient of the Award "Premio di eccellenza per 5 Ricercatori dell'Università del Salento" 2010 edition (sponsored by Banca Popolare Pugliese).

Teaching related responsibilities

- From 2003 ("ciclo XIX") to 2012 ("ciclo XXVIII") I served as Ph.D. Committee Member ("Collegio dei Docenti") of the Ph.D. program "Corso di Dottorato in Ingegneria dell'Informazione" (Information Engineering) at the Dipartimento Ingegneria dell'Innovazione of the University of Salento. As a member of this committee I have supervised (as a tutor) four Ph.D. students that have successfully acquired the Ph.D. title. In particular, I have been Ph.D. tutor of Dr. Andrea Manni (XX ciclo, Ph.D. Thesis "Controllo del moto di Robot Umanoidi"), Dr. Alessandro Zizzari (XXI ciclo, Ph.D. Thesis "Controllo del moto di veicoli marini") and Dr. Paola Pedone (XXII ciclo, Ph.D. Thesis: "Controllo coordinato di veicoli robotici"). From September 2013 to April 3rd, 2017 I have supervised the Ph.D. student (XXVIII ciclo) Dr. Daniela De Palma working on navigation issues for underwater vehicles (Thesis tile "Navigation systems for Autonomous Underwater Vehicles").
- From February 23rd, 2010 to November 30th, 2019 I served as vice President of "Consiglio Didattico in Ingegneria dell'Informazione" (Information Engineering Teaching Council) at the Faculty of Engineering of the University of Salento.
- From November 19th, 2012 to January 18th, 2018 I have served as the ERASMUS delegate for the "Consiglio Didattico in Ingegneria dell'Informazione" (Information Engineering Teaching Council) at the Faculty of Engineering of the University of Salento.
- From February 2013 to November 30th, 2019 I served as member of the Teaching Quality Committee ("Gruppo di Riesame") for the "Consiglio Didattico in Ingegneria dell'Informazione, Laurea in Ingegneria dell'Informazione e Laurea Magistrale in Ingegneria Informatica" (Information Engineering Teaching Council, Degree in Ingegneria dell'Informazione and Master Degree in Computer Engineering) at the Faculty of Engineering of the University of Salento within the AVA ("Autovalutazione, Valutazione Periodica e Accreditamento") quality monitoring initiative of the Italian Minister of Research and Education MIUR.
- From 2013 ("ciclo XXIX") to 2019 ("ciclo XXXV") I served as Ph.D. Committee Member ("Collegio dei Docenti") of the Ph.D. program "Corso di Dottorato in Ingegneria dei

Sistemi Complessi" (Complex Systems) at the Dipartimento Ingegneria dell'Innovazione of the University of Salento.

- In 2020 ("ciclo XXXVI") I served as Ph.D. Committee Member ("Collegio dei Docenti") of the Ph.D. program "Bioingegneria e Robotica" (Bioengineering and Robotics) at the Department of Informatics, Bioengineering, Robotics, and Systems Engineering - DIBRIS of the University of Genova. Within this Ph.D. program I have co-supervised (jointly with Prof. Enrico Simetti) the candidate Andrea Tiranti who has graduated in 2025 with the Thesis "A distributed autonomous passive sonar system.
- Since 2021 ("ciclo XXXVII") I joined the Ph.D. Committee ("Collegio dei Docenti") of the Ph.D. program "Scienze e Tecnologie del Mare" (Marine Science and Technology) of the University of Genova.
- Since 2022 ("ciclo XXXVIII") I joined the Ph.D. Committee ("Collegio dei Docenti") of the Ph.D. national program in Robotics and Intelligent Machines (DRIM). Within this Ph.D. program I am co-supervising (jointly with Prof. Enrico Simetti) the candidates Juri Khanmeh (cycle 38) and Youssef Mohsen Mahmoud Attia (cycle 40) on marine robotics topics. Together with Prof. Maria Pia Fanti (Politecnico di Bari) and Prof. Domenico Sorrenti, I serve as coordinator of the Curriculum "Robotics and Intelligent Machines for Mobility and Autonomous Vehicles" within DRIM.
<https://drim.i-rim.it/en/>.
- Since April 27th, 2023 I am a member of "Commissione Didattica" (Teaching Committee) of the Masters Course in Robotics Engineering of the University of Genova. Within the same committee I share with colleague Prof. Fulvio Mastrogiovanni the responsibility for the international activities of the Course.
- Since November 2025 I am part as hearing member (*uditore* in Italian) of the CPDS "Commissione Paritetica di Scuola per la didattica e il diritto allo studio" (literally "Joint School Committee for Teaching and Student Rights") of the University of Genova for the term 2025 - 2027 for the Bachelor degree in Computer Engineering (code 8719).

Undergraduate Courses

- Fundamentals of Automatic Controls ("Fondamenti di Automatica"), 45 hours course for Mechanical Engineering students at Università del Salento (degli Studi di Lecce until 2007) in the academic years 2001-2002, 2002-2003, 2003-2004, 2004-2005, 2005-2006. Same course, but of 54 hours in the academic years 2008-2009 and 2009-2010.

- Fundamentals of Automatic Controls ("Fondamenti di Automatica"), course for Computer Science and Automation Engineering students at Università del Salento (degli Studi di Lecce until 2007) in the academic years 2004-2005, 2005-2006, 2006-2007, 2007-2008, 2008-2009, 2010-2011, 2011-2012, 2012-2013, 2013-2014, 2014-2015, 2015-2016, 2016-2017, 2017-2018, 2018-2019 and 2019-2020. Over the years the course was organized on either 7 or 9 CFUs for a duration ranging from approximately 60 to 80 hours.
- Controls Systems Technologies ("Ingegneria e Tecnologia dei Sistemi di Controllo"), 63 hours (7 CFU), course for Computer Science and Automation Engineering students at Università del Salento (degli Studi di Lecce until 2007) in the academic years 2002-2003, 2003-2004, 2004-2005, 2005-2006, 2006-2007, 2007-2008, 2008-2009 and 2009-2010.
- Systems Theory ("Teoria dei Sistemi"), course for Computer Science students at Università del Salento held in the academic year 2012-2013, 2013-2014, 2014-2015 and 2015-2016 (6 CFU, 54 hours).
- Academic years 2020-2021, 2021-2022, 2022-2023, 2023-2024, 2024-2025 and 2025-2026: Automatic Control ("Controlli Automatici"), 72 hours (9 CFU), course for Computer Engineering ("Ingegneria Informatica" (L-8)) students (third year, annual course) at Università di Genova.
- Academic year 2025-2026: Software Tools for Control Systems ("Strumenti Software per l'Automatica"), 48 hours (6 CFU), course for Computer Engineering ("Ingegneria Informatica" (L-8)) students (third year, second semester) at Università di Genova.
- Academic year 2020-2021, 2021-2022, and 2022 - 2023 at Università di Genova: Embedded Control Systems ("Sistemi di Controllo Embedded"), 50 hours (5 CFU), course for Mechanical Engineering ("Ingegneria Meccanica" (L-9)) students in La Spezia. Approximately 20 hours (out of 50) of the course are held by Prof. Enrico Simetti. The course is one of the modules of the Automation Systems ("Sistemi per l'Automazione" - 10 CFU).
- Academic years 2023-2024 and 2024-2025 at Università di Genova: Fundamentals of Automatic Controls for Naval Engineering ("Fondamenti di automatica per l'ingegneria navale") (cod. 66048), 60 hours (6 CFU), course for Naval Engineering (Corso di Laurea in Ingegneria Navale 8722 (L-9)), third year.

Graduate Courses

- "Control Theory for Mobile Robots", University of Applied Sciences Bonn Rhein Sieg (Fachhochschule Bonn Rhein Sieg) Sankt Augustin, Germany as Professor of a 60 hours

within the "International Master Course in Autonomous Systems" of the Bonn-Aachen International Centre for Information Technology B-IT in the period May 2003 - June 2003.

- Robotics ("Robotica"), course for Automation Engineering and Computer Science Masters students at Università del Salento (degli Studi di Lecce until 2007) in the academic years 2004-2005, 2005-2006, 2006-2007, 2007-2008, 2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013, 2013-2014, 2014-2015, 2015-2016, 2016-2017, 2017-2018, 2018-2019 and 2019-2020. Over the years the course was organized on either 6, 7 or 9 CFUs for a duration ranging from approximately 55 to 80 hours.
- Systems Theory ("Teoria dei Sistemi"), course for Computer Science Masters students at Università del Salento held in the academic year 2011-2012 (9 CFU, 81 hours).
- Control System Engineering ("Ingegneria dei Sistemi di Controllo"), course for Mechanical Engineering (Design and Production, LM-33) Masters students at Università di Genova held in the academic years 2019-2020 (5 CFU, 53 hours (48 were planned), second semester) and 2021-2022. The same course was held in the academic year 2020-2021, but in the first semester (5 CFU, 52 hours).
- Academic year 2022-2023, and 2023-2024, Control of Linear Multi-Variable Systems (cod. 80181) within the Masters in Robotics Engineering (5 CFU, 40 hours during the 1st year of 10635 Robotics Engineering (LM-32), at Università di Genova).
- Academic years 2024-2025, and 2025-2026, Control of Multi-Variable Systems (cod. 80181) within the Masters in Robotics Engineering (5 CFU, 40 hours during the 1st year of 10635 Robotics Engineering (LM-32), at Università di Genova).
- Academic year 2022-2023, Modeling and Control of Manipulators (cod. 56846) within the Masters in Robotics Engineering (the course is of 6 CFU for a total of 48 hours during the 1st year of 10635 Robotics Engineering (LM-32), at Università di Genova). The course has been held together with colleagues professors Enrico Simetti and Giorgio Cannata for a total of approximately 16 hours each.

Ph.D. Courses

- Introduction to the Least Squares Technique for Parameter Identification and State Estimation ("Introduzione alla tecnica dei Minimi Quadrati per la identificazione parametrica e la stima dello stato"), 20h course at the University of Salento in the academic years 2011-2012 and 2016-2017. A 24h version of the same course was held at the University of

Salento in the academic year 2013-2014. The course was also held in the academic year 2017-2018.

- Introduction to Nonlinear Control Systems, 20h course at the University of Salento in 2008, 2009 and 2010.
- refer also to the section Invited Talks of the CV as some Invited Talks were organized within Ph.D. Schools.

Since 2001 I have supervised more than 100 Undergraduate and Graduate Thesis mostly in the areas of Mobile Robotics and Underwater Robotics. Since 2005 have supervised 5 Ph.D. students (Andrea Manni, Alessandro A. Zizzari, Paola Pedone, Daniela De Palma, and Roberta Ingrosso) at the University of Salento and since 2022 I have been co-supervising (with Prof. Enrico Simetti) three students in Marine Robotics (Andrea Tiranti, Juri Khanmeh and Youssef Attia) at the University of Genova. Andrea Tiranti graduated (37th cycle) in 2025 with a Thesis entitled "A distributed autonomous passive sonar system" within the Ph.D. Program in Bioengineering and Robotics of the University of Genova.

Research activity and interests

Since the starting of my Ph.D. studies, my research activity has focused on the application of nonlinear control methods to robotic motion control issues. Title of the Ph.D. thesis was: "Modelling and Identification of Underwater Robotic Systems". As a result of this work, an "experimental protocol" on how to model an open-frame ROV and on how to perform its system identification experiments has been developed as accounted in the paper by M. Caccia, G. Indiveri, G. Veruggio, MODELLING AND IDENTIFICATION OF OPEN-FRAME VARIABLE CONFIGURATION UNMANNED UNDERWATER VEHICLES, IEEE Journal of Oceanic Engineering, vol. 25, no. 2, pp. 227 - 240, April 2000.

Later my research interests have focused on nonlinear control and its application to the motion control of underactuated vehicles with specific emphasis on marine systems. Underactuated systems (i.e. systems having more degrees of freedom than control inputs) may suffer several "pathologies": often their dynamic or kinematic model does not satisfy Brockett's necessary condition for continuous state feedback and/or is not feedback linearizable. In either case standard tools of nonlinear control design cannot be applied.

During my stay at the BE Team of AiS, Germany, starting in April 2000, I have worked also on motion control of land mobile robots. Within this team my work has focused on an attempt to combine a behaviour based control architecture with nonlinear feedback theory. The experimental test-bed is provided by the GMD-AiS Robocup robots team (soccer playing robots, see

<http://www.robocup.org> and/or <http://ais.gmd.de/be>) for which I have developed several nonlinear motion controllers.

More recently my research activity has focused on identification and filtering problems in the presence of measurement outliers. The novel least entropy-like (LEL) technique for parameter identification in the presence of measurement outliers has been presented in 2009: building on this approach a robust state estimation solution has been developed aiming at enhanced robustness to measurement outliers. The proposed technique has been applied to underwater navigation issues including single range localization.

Currently my research interests can be summarized as follows:

- motion control of marine robots, including path following, pose regulation and trajectory tracking control
- motion control of wheeled mobile robots, including modeling and guidance control of omnidirectional Swedish wheeled robots with saturating actuators
- Robust parameter estimation techniques
- Outlier robust state estimation
- Marine robot modelling and identification
- Marine robot guidance, navigation and control.

During my stay at the University of Salento I was the Senior Responsible of the Automatic Controls Lab COR Control Optimization and Robotics at DII, University of Salento (formerly University of Lecce) where I lead the Marine Robotics and Mobile Robotics oriented research activities. The Lab is equipped with 2 Mobile Robots, 1 small Humanoid Robot and 1 small ROV (Remotely Operated Vehicle) Underwater Robot that was designed and built in 2004.

In 2011 I was one of the founding members of the high-tech company APPHIA s.r.l. (c.f. 04374470757) located in Lecce, Italy. The company (<http://www.apphia.it/>) is to date active in several areas including robotics, naval automation, industrial automation and smart agriculture.

Research visits and Invited Talks

1. May-June 1997, Plymouth, UK. Short Fellowship at the Institute of Marine Studies (IMS) of the University of Plymouth under the supervision of Dr. Robert Sutton.

2. 23 September 1998, GMD German National Research Center for Information Technology, Sankt Augustin, Germany. Invited talk at the Institute for Autonomous Systems. Title of the talk: "MODELLING, IDENTIFICATION AND PATH GENERATION FOR UNDERWATER ROBOTS".
3. May 1999, visiting Researcher at the GMD - JRL (Japan Research Laboratory), Kitakyushu, Japan (<http://www.gmd.gr.jp>).
4. Spring 2000, I have organized and delivered an introductory course (about 10 hours) of Control Theory for GMD Researches in computer science.
5. 4 - 11 February 2001, visiting Researcher at the Dynamical Systems and Ocean Robotics Lab of IST-ISR Instituto Superior Tecnico - Institute for Systems and Robotics) Lisbon Portugal, headed by Prof. Antonio Pascoal.
6. July 2001, participation to the Telluride 2001 Neuromorphic Engineering Workshop.
7. August 2001, invited talk at the Naval Postgraduate School (NPS), Monterey, California.
8. 7 - 11 January 2002, 1st Lerici International Winter School on Marine Technologies, Lerici (Sp), Italy. (<http://www.dii.unisi.it/%7edomenico/Lerici/>) AUVs/ROVs dynamic models.
9. 7 - 11 April 2002, Invited Lecturer at RoboCamp HNF Paderborn
http://ais.gmd.de/G0/2002/camp_en_bottom.html
Dynamic Modeling of Mobile Robots Giovanni Indiveri, University of Lecce the Heinz Nixdorf Museumsforum <http://www.hnf.de> in Paderborn, Germany
<http://www.paderborn.de>.
10. 20 July 2002, Invited Lecturer at the Italian CIRA "DOTTORATO" (Ph.D.) Summer School "ANTONIO RUBERTI" in Bertinoro, 15-20 July, 2002 on Mobile Robotics. Lecture "Problematiche di controllo e guida II" (Guidance and control issues, part II) by Giuseppe Casalino, University of Genova and Giovanni Indiveri, University of Lecce.
11. May - June 2003 Visiting Professor at the University of Applied Sciences Bonn Rhein Sieg (Fachhochschule Bonn Rhein Sieg) Sankt Augustin, Germany as Professor of a 60 hours course on "Control Theory for Mobile Robots" within the "International Master Course in Autonomous Systems" of the Bonn-Aachen International Centre for Information Technology B-IT.

12. 1 - 31 August 2006, Visiting Professor at IUB - International University Bremen (now Jacobs University Bremen), Bremen, Germany.
13. 17 July 2010, Invited talk at the SIDRA Ph.D. Summer School "Scuola di Dottorato SIDRA 2010 "Robotica" Bertinoro, 12-17 Luglio 2010". Title of the talk: "G. Indiveri and P. Pedone (University of Salento): Controllo del modello cinematico di robot mobili con gestione delle saturazioni sui comandi di velocità".
14. 30 March 2011 Invited talk at Norwegian University of Science and Technology - NTNU, Trondheim, Norway. Title of the talk: "A Novel Prediction Error Method for Parameter Estimation in the Presence of Outliers and its Possible Applications".
15. 11-17 July 2011: 2nd Co3-AUVs (FP7 Project) Summer School, Bremen. Invited Lectures: "Introduction to Marine Robot Modeling and Control" and "Observability Issues for Cooperative Marine Robots".
16. Invited Plenary Speaker at the 13th IFAC Symposium on Control in Transportation Systems CTS'2012, September 12-14, 2012 Sofia, Bulgaria. Plenary talk "Intelligent Autonomous Vehicles: current trends and future challenges" delivered on September 12, 2012.
17. 3rd July 2013 Invited talk at the University of Newcastle, Australia. Title of the talk: "A Novel Prediction Error Method for Robust Parameter Estimation in the Presence of Outliers and its Possible Applications".
18. Invited lecturer at the Course on Marine Robotic Systems: From Theory to Practice 27-31 January, 2015 National Institute of Oceanography, Dona Paula, Goa (approximately 4 hours presentation).
19. Invited Speaker at Università di Napoli (Italy), 21st April 2015. Talk title: "A Glimpse at the H2020 WiMUST project and one of its bits: outlier robust state estimation in marine robotics applications".
20. Invited Speaker at Centro euro-Mediterraneo sui Cambiamenti Climatici (CMCC), Lecce (Italy), 8th July 2016. Talk title: "The H2020 project WiMUST: Widely scalable Mobile Underwater Sonar Technology. An overview."
21. Invited Speaker at Breaking the Surface - BtS 2016, Ilirija Resort, Biograd na Moru, Croatia 2nd - 9th October 2016.

22. June 27th, 2017: Invited Lecturer at the 1st Summer School of the EU H2020 Marine UAS - Autonomous Unmanned Aerial Systems for Marine and Coastal Monitoring - project. (<http://www.itk.ntnu.no/itn/> and http://cordis.europa.eu/project/rcn/193888_en.html). Lecture title "Range-based navigation". The Lecture was also part of the 2nd WiMUST Summer School.
23. November 16th-17th, 2018: Invited speaker at the Sea Drone Tech Summit - Seadrone 2018, Gallipoli (LE, Italy). Title of the talk: "Robotica Marina di Servizio, Esplorazione ed Intervento nell'esperienza di Unisalento ed ISME".
24. September 9th, 2021 - Joint ISME and IIT meeting at IIT (Genova, Italy), talk title "Marine robotics challenges and applications".
25. April 7th, 2022, IIT and University of Genova ELLIS Genoa Unit: Thematic workshop on Robotics. Talk title "Marine Robotics in ISME and its UNIGE node"
26. Organizing committee member and speaker at the MOBROB 2022 - Summer School on Autonomous Mobile Robotics in the framework of Industry 4.0, 13 to 18 June 2022, Lecce (Italy). Talk title "An introduction to Autonomous Mobile Robotics" (2 hours lecture).
27. December 13th, 2022: Invited Lecturer at 1st edition of the IEEE OES MEDITERRANEAN - Ph.D. Winter School organised by the IEEE OES ITALY CHAPTER with the support of the IEEE OES. The event was online (no physical location). Lecture title "Distributed Passive Acoustic Monitoring with AUVs - from WiMUST to DAMPS".
28. March 27th, 2023: Invited panelist at the Accademia Navale in Livorno (Italy) for the event "Civiltà del Mare - Il subacqueo, nuovo ambiente dell'umanità" organized by the Italian Navy with Fondazione Leonardo - Civiltà delle Macchine including the participation of: Ministro per la Protezione Civile e le Politiche del mare Nello Musumeci, Ministro della Difesa Guido Crosetto, Capo di Stato Maggiore Marina Enrico Credendino, Presidente della Fondazione Leonardo - Civiltà delle Macchine Luciano Violante. Contribution at the round table discussion on "La sfida tecnologica: capacità industriali e opportunità". (<https://www.civiltadellemacchine.it/it/la-fondazione/civilt%C3%A0-del-mare/>)
29. June 6th, 2023: Invited panelist at the conference "Underwater and technology as a business sector" held within the 8th edition of the SEAFUTURE business convention for maritime and dual use technologies in La Spezia, Italy (<https://seafuture.it/>).
30. June 6th, 2023: Invited panelist at the workshop on "Explore the unexplored: how to

secure the cyber underwater dimension” onboard the Italian Navy ship Marceglia at Arsenale Militare Marittimo di La Spezia, Italy.

31. June 20th, 2023: Invited Keynote Speaker at MARTECH 2023, the 10th International workshop on Marine Technology, University Jaume I, Castellón de la Plana, Valencian Community (Spain) (<https://sarti.webs.upc.edu/martech/>).
32. September 27th, 2023, Pisa (Italy): invited speaker at the opening of the University of Pisa EAS Master (second level university master in Underwater Electroacoustics and its Applications). Talk title (in Italian) "Attuali sfide ed opportunità della dimensione subacquea".
33. October 17th, 2023: invited speaker at the online edition of Sea Drone Tech Summit - Seadrone 2023. Title of the talk (in Italian): "Robotica marina: ricerca, formazione e terza missione delle Università Italiane in ISME".
34. November 21st, 2023: invited lecturer at the Marine Robotics School 2023, CSIR-National Institute of Oceanography, Dona Paula, Goa, India 20-25 November 2023 (approximately 4 hours presentation) (<https://mrs2023.nio.res.in/>).
35. 1 - 31 January 2025 awarded from Deutscher Akademischer Austauschdienst e.V. (DAAD) (<https://www.daad.de/>) a one month visit to the University of Rostock, c/o Prof. Dr.-Ing. Torsten Jeinsch, Lehrstuhl Regelungstechnik, Institut für Automatisierungstechnik. DAAD Funding programme: Research Stays for University Academics and Scientists, 2024 (ID 57698956).
36. Tuesday - 30 September 2025: invited speaker (online) at the NATO initiative: NATO SPS ATC G8436, Science for Peace and Security (SPS) programme supporting non-military co-operation focused on scientific research, technological innovation and knowledge exchange (<https://www.nato.int/cps/en/natohq/78209.htm/>). Main organizer, Organised by Batumi State Maritime Academy, Sheraton Batumi Hotel, Batumi, Georgia. Lecture title “Marine robotics technologies: an introduction to models, navigation, guidance, control and applications”.
37. 16 - 17 October 2025: invited speaker and panelist at Drone International Symposium - The Impact of Drone Technology on Society: benefits and challenge, Palazzo Medici-Riccardi, Florence, Italy (<https://www.internationalsymposium.it/>). Talk title: "Marine Robots within the activities of ISME: the Interuniversity Research Center of Integrated Systems for the Marine Environment. Past, current and future challenges".

38. October 22nd, 2025: Invited panelist at the roundtable "La conservazione dei mari italiani: stato delle ricerche e soluzioni tecnologiche innovative" part of the conference "Un futuro probabile nel subacqueo" organized by Università di Napoli Federico II and Associazione Futuri Probabili (<https://www.futuriprobabili.it/>).
39. October 23rd, 2025: Invited speaker at the Sea Drone Tech Summit - Digital Conference 2025 (<https://www.seadrone.it/>). Title of the talk (in Italian): "Attività delle Università Italiane in ISME nel settore della robotica marina".
40. October 30th, 2025: Invited speaker at Festival della Scienza 2025, Genova 23 ottobre - 2 novembre 2025, Conference "Verso l'ignoto, andar per mare con strumenti di ieri e di oggi", Incontro con Gabriella Airaldi, Aldo Caterino, Giovanni Indiveri, modera Carlotta Gualco (<https://www.festivalscienza.it/programma-2025/verso-lignoto/>).

Scientific Coordination Responsibilities

- Member of the Board ("Giunta di Dipartimento") of the DII - Dipartimento Ingegneria Innovazione of the University of Salento in the period 2004-2008.
- Member of the Technical Committee on Intelligent Autonomous Vehicles (IAV) of IFAC-International Federation of Automatic Control (<http://www.ifac-control.org/>) starting in 2005.
- Vice-Chair of the IFAC Technical Committee 7.5 on Intelligent Autonomous Vehicles (IAV) from August 1st, 2009 for the triennium 2009 - 2011.
- Scientific Responsible of the University of Salento Research Unit of the Interuniversity Centre of Integrated Systems for the Marine Environment (ISME) from 22nd November 2007 to 30th November 2019 (end of affiliation with the University of Salento).
- Chair of the IFAC Technical Committee 7.5 on Intelligent Autonomous Vehicles (IAV) from August 1st, 2011 for the triennium 2011-2014.
- Vice-Chair of the IFAC Technical Committee 7.5 on Intelligent Autonomous Vehicles (IAV) from August 1st, 2014 for the triennium 2014-2017.
- Italian Member of the NATO Sensors & Electronics Technology Research Task Group 199, SET-199 RTG, on "Evaluating the Effectiveness of Coordination Methods for Distributed Mobile Sensors" from October 30th, 2013 to its ending (December 1st, 2015).
<https://www.sto.nato.int/>

- Member of the Board ("Giunta di Dipartimento") of the DII - Dipartimento Ingegneria Innovazione of the University of Salento from December 18th, 2013 to March 9th, 2016.
- Member of the IFAC Technical Committee 7.2 on Marine Systems since September 2016.
- Co-Chair for Publications of the IFAC Technical Committee 7.2 on Marine Systems since September 12th, 2018 (ongoing, the current term was confirmed on December 4th, 2023 and is ending in August 2026).
- Scientific Responsible for the Università del Salento (Lecce) of the Interuniversity Center on Industria 4.0 from January 23rd, 2017 to November 30th, 2019.
- Management Board ("Consiglio di Amministrazione - CDA") member, as Università del Salento representative, of the spin-off company SofThings s.r.l. from September 21st, 2018 to November 30th, 2019. (<http://www.softthings.com/en/>)
- Scientific Responsible of the University of Genova Research Unit of the Interuniversity Centre of Integrated Systems for the Marine Environment (ISME) from 26th October 2020 to 25th October 2023.
- Since January 30, 2022 member of the Scientific Technical Committee (Comitato Tecnico Scientifico - CTS) of "Centro del Mare" (<https://mare.unige.it/>) of the University of Genova as a representative of DIBRIS Department for the term 2022 - 2025. On January 30th, 2026 such position has been renovated for the period 2026 - 2028 (end date 31st December 2028).
- Since 2021 Chair (together with Prof. Gianluca Antonelli of the University of Cassino, Italy) of the Work Group for Marine Robotics at the Institute of Robotics and Intelligent Machines I-RIM (<https://i-rim.it/>).
- Director of the Interuniversity Centre of Integrated Systems for the Marine Environment (ISME) starting on the 3rd February 2021(ongoing). The Centre groups nine Italian Universities (Pisa, Firenze, Cassino e Lazio Meridionale, Bologna, Politecnica delle Marche, Roma La Sapienza, Calabria, Salento and Genova) and has a joint Lab on Marine Robotics with the Italian Navy at its CSSN (Centro di Supporto e Sperimentazione Navale) premises in La Spezia, Italy. To date the center has six ongoing funded projects PNRM (Piano Nazionale Della Ricerca Militare) on top of several industrial ongoing projects. The center was founded in 1999 and has a consolidated track record of funded EU and national projects. Refer to its web page <http://www.isme.unige.it/> for further details.

Conference and Publication Committees

1. Member of the Local Organizing Committee of the International Workshop on Edutainment Robots 2000, 27-28 September 2000, GMD - AiS, Schloss Birlinghoven, D-53754 Sankt Augustin, Germany. URL <http://ais.gmd.de/edu-ws2000/>.
2. IPC, International Program Committee, member of the IAV04 5th IFAC Symposium on Intelligent Autonomous Vehicles (IAV 2004) held in Lisbon, Portugal from 5-7 July 2004, <http://iav04.isr.ist.utl.pt>.
3. IPC, International Program Committee, member of the IEEE ICRA 2005, International Conference on Robotics and Automation, 18 - 22 April 2005, Barcellona, Spain, <http://www.icra2005.org>.
4. IPC, International Program Committee, member of the 7th Portuguese Conference on Automatic Control CONTROLLO 2006, Lisbon, 11 - 13 September 2006, <http://controlo2006.ist.utl.pt>.
5. IPC, International Program Committee, member of the RoboCup International Symposium 2006 Bremen, Germany 19th and 20th of June 2006, <http://www.ira.disco.unimib.it/robocupsymposium06/>.
6. IPC, International Program Committee, member of the 7th IFAC Conference on Manoeuvring and Control of Marine Craft (MCMC 2006), Lisbon, Portugal from 20-22 September, 2006, <http://mcmc2006.isr.ist.utl.pt>.
7. IPC, International Program Committee, member of the First Workshop on Humanoid Soccer Robots in conjunction with the 2006 IEEE International Conference on Humanoid Robots, Genoa (Italy), December 4, 2006.
8. IPC, International Program Committee, member of the IAV 2007, 6th IFAC Symposium on Intelligent Autonomous Vehicles, September 3-5, 2007, Toulouse, France, <http://www.laas.fr/iav2007/>.
9. IPC, International Program Committee, member of CAMS 2007, 7th IFAC Conference on Control Applications in Marine Systems, 19 - 21 September, 2007, Bol, Croatia. Chairman of the "Path following" session.
10. IPC, International Program Committee, member of the RoboCup International Symposium 2007 Atlanta, USA 9th and 10th of July 2007, <http://www.tzi.de/%7evisser/rc07/Welcome.html>.

11. IPC, International Program Committee, member of the 2008 RSS Robotics: Science and Systems Conference, ETHZ - Zürich, Switzerland, June 25-27, 2008, <http://www.roboticsconference.org>.
12. IPC, International Program Committee, member of the RoboCup International Symposium 2008 Suzhou, China, July 15-18, 2008, <http://www.dis.uniroma1.it/%7erc08/>.
13. IPC, International Program Committee, member of the 8th Portuguese Conference on Automatic Control CONTROL0 2008, Vila Real, Portugal, 21 - 23 July 2008, <http://home.utad.pt/controlo2008/>.
14. IPC, International Program Committee, member of the IFAC - MCMC 2009 - 8th Conference on Manoeuvring and Control of Marine Craft, Guarujá (SP), Brazil, 17-19 September, 2009, <http://www.mecanica-poliusp.org.br/07even/cont/mcmc/home.html>.
15. IPC, International Program Committee, member of the RoboCup International Symposium 2009, Graz, Austria, 30 June - 3 July 2009, <http://www.robocup2009.org/202-0-symposium.html>.
16. Associate Editor for 2009 IEEE/RSJ International Conference on Intelligent Robots and Systems, IEEE - IROS 2009, October 11-15, 2009, St. Louis, MO, USA, <http://www.iros09.mtu.edu/>.
17. IPC, International Program Committee, member of the 14th RoboCup International Symposium 2010, Singapore 25 June, 2010, <http://www.robocup2010.org/index.php>.
18. IPC, International Program Committee, member of the 9th Portuguese Conference on Automatic Control CONTROL0 2010, Coimbra, Portugal, 8 - 10 September 2010, <http://www.controlo2010.org/>.
19. Reviewer for the international Conference 15th IEEE Mediterranean Electrotechnical Conference, Valletta, Malta, 26 - 28 April 2010, <http://www.melecon2010.org/>.
20. IPC co-Chair and main organizer of the IFAC IAV 2010, Symposium on Intelligent Autonomous Vehicles held in Lecce (Italy), September 6-8, 2010, <http://iav2010.unile.it/>.
This item is also listed in section "Invited Sessions and Workshop Organization",
21. IPC, International Program Committee, member of the ICINCO 2010 - 7th International Conference on Informatics in Control, Automation and Robotics, 15-18 July 2010, Madeira, Portugal, <http://www.icinco.org/ICINCO2010/>.

22. IPC, International Program Committee, member of the 8th IFAC Conference on Control Applications in Marine Systems, CAMS 2010, Rostock-Warnemünde, Germany, September 15-17, 2010, <http://www.cams2010.uni-rostock.de/>.
23. Associate Editor (Contributed Papers) for 2010 IEEE/RSJ International Conference on Intelligent Robots and Systems, IROS 2010, Taipei International Convention Center, Taipei, Taiwan, October 18-22, 2010, <http://www.ieee.org/conferences>.
24. IPC, International Program Committee, member of the 11th International Conference on Intelligent Autonomous Systems IAS - 11 2010, 30 August - 1 September 2010, Ottawa, Canada, <http://www.yvesnix.nl/ias-11/>.
25. IPC, International Program Committee, member of the ICINCO 2011 - 8th International Conference on Informatics in Control, Automation and Robotics, 28 - 31 July 2011, Noordwijkerhout, The Netherlands, <http://www.icinco.org/ICINCO2011/>.
26. IPC, International Program Committee, member of the 2011 FTRA International Conference on Intelligent Robotics, Automations, telecommunication facilities, and applications (IRoA-11), Gwangju, Korea, October 20-22, 2011, <http://www.ftraai.org/iroa2011/>.
27. IPC, International Program Committee, member of the 15th RoboCup International Symposium 2011, Istanbul, Turkey 11 July, 2011, <http://www.robocup2011.org/index.php>.
28. IPC, International Program Committee, member of the IFAC Workshop on Navigation, Guidance and Control of Underwater Vehicles (NGCUV 2012), Porto from April 10th to 12th, 2012 at the Faculty of Engineering of the University of Porto, Portugal, <http://paginas.fe.up.pt/%7engcuv2012/index.html>.
29. IPC, International Program Committee, member of the ICINCO 2012 - 9th International Conference on Informatics in Control, Automation and Robotics, 28 - 31 July, 2012, Rome, Italy, <http://www.icinco.org/Home.aspx>.
30. IPC, International Program Committee, member of the the 10th Portuguese Conference on Automatic Control CONTROLLO-12, Funchal, Madeira Island, July 16th to 18th, 2012, <http://www4.uma.pt/controllo2012/index.html>.
31. IPC, International Program Committee, member of the 9th IFAC Conference on Manoeuvring and Control of Marine Craft MCMC 2012, September 19-21, 2012, Arenzano (Ge), Italy, <http://www.mcmc2012.issia.cnr.it/>.

32. IPC, International Program Committee, member of the 12th International Conference on Intelligent Autonomous System (IAS-12) at Ramada Plaza Jeju Hotel, Jeju Island, Korea on June 26 - 29, 2012, <http://www.ias-12.org/>.
33. IPC, International Program Committee, member of the 2nd IFAC Workshop on Multivehicle Systems, October 3-4, 2012, Espoo, Finland, <http://mvs2012.aalto.fi/>.
34. Associate Editor (Contributed Papers) for IEEE/RSJ International Conference on Intelligent Robots and Systems, IROS 2012, October 7-12, 2012 Vilamoura, Algarve (Portugal), <http://www.ieee.org/conferences>
<http://www.iros2012.org/>.
35. Program Committee member of ACVR - First International Workshop on Assistive Computer Vision and Robotics, in conjunction with the 17th International Conference on Image Analysis and Processing (ICIAP), 9 - 13 September 2013, Naples, Italy, <http://www.iciap2013-naples.org>
<http://iplab.dmi.unict.it/acvr2013/> .
36. IPC, International Program Committee, member of the 4th IFAC Workshop on Distributed Estimation and Control in Networked Systems (NecSys), September 25 - 26, 2013 at the conference center Rhine-Moselle-Hall in Koblenz, Germany. <http://www.necsys2013.ruhr-uni-bochum.de>.
37. IPC, International Program Committee, member of the 9th IFAC Conference on Control Applications in Marine Systems, CAMS 2013, Osaka, Japan, September 17-20, 2013, <http://cams2013.naoe.eng.osaka-u.ac.jp>.
38. IPC, International Program Committee, member of the 2nd IFAC Workshop on Research, Development and Education of Unmanned Aerial Systems, University of Technology of Compiègne, France, from November 20 to November 22, 2013, <https://www.hds.utc.fr/reduas2013/doku.php>.
39. Editorial Board Member for the topic of Vision Systems for the year 2013: International Journal of Advanced Robotic Systems, InTech, <http://www.intechopen.com/journals/>.
40. Symposium Proceedings Editor of the 2013 IFAC Intelligent Autonomous Vehicles Symposium - IFAC IAV 2013, Gold Coast, 26-28 June 2013, <https://ifac.papercept.net/conferences/conferences/IAV13/program/>.

41. IPC, International Program Committee, member of the 11th Portuguese Conference on Automatic Control - CONTROLO 14, Porto, Portugal, July 21st to 23rd, 2014, <http://paginas.fe.up.pt/%7Econtrollo2014/>.
42. IPC, International Program Committee, member of the 13th International Conference on Intelligent Autonomous Systems, IAS-13, Padova 15-19 July 2014 <http://www.ias-13.org>.
43. Associate Editor of the 19th IFAC World Congress, August 24-29, 2014, Cape Town, South Africa, <http://www.ifac2014.org>.
44. TPC, Technical Program Committee member of the Second Workshop on Assistive Computer Vision and Robotics ACVR 2014, Zürich - September 12th, 2014, <http://www.ino.it/ACVR2014/>.
45. From March 2015 to February 2023, Associate Editor of Frontiers in Robotics and AI - Robotic Control Systems section <https://www.frontiersin.org/journals/robotics-and-ai/>.
46. TPC, Technical Program Committee, member of the OCEANS 15 MTS/IEEE GENOVA, Genova, Italy, 18-21 May 2015, <http://www.oceans15mtsieeejenova.org/>.
47. Editor and IPC, International Program Committee, member of the 3rd IFAC Workshop on Multivehicle Systems - MVS 2015, Genova, Italy - May 18th, 2015. In conjunction with MTS/IEEE OCEANS 15, <http://mvs2015.unisalento.it/>.
48. IPC, International Program Committee, member of the IFAC Workshop on Navigation, Guidance and Control of Underwater Vehicles (NGCUV 2015), Girona, Spain, 28th 30th April 2015, <http://ngcuv.udg.edu>.
49. IPC, International Program Committee, member of the 10th IFAC Conference on Manoeuvring and Control of Marine Craft (MCMC'2015), Copenhagen, Denmark, August 24-26, 2015, <http://www.conferencemanager.dk/mcmc2015/>.
50. Program Committee member of Automatica.it 2015, Bari (Italy), 7-9 September 2015. Annual scientific meeting of SIDRA, the Italian society of researchers and professors in Automatic Controls (SIDRA), <http://dei.poliba.it/sidra2015/index.html>.
51. ISC, International Scientific Committee, member of the FAST-zero 2015 Symposium, Future Active Safety Technology Towards zero traffic accidents, Gothenburg, Sweden, September 9-11, 2015, <http://fastzero15.net>.

52. TPC, Technical Program Committee, member of the ICCV Workshop on Assistive Computer Vision and Robotics ACVR 2015, Santiago, Chile - 12 December 2015, in conjunction with the International Conference on Computer Vision 2015 ICCV 2015, <http://iplab.dmi.unict.it/acvr2015/>.
53. Advisory Committee Member of the 15th Conference on Computer Applications and Information Technology in the Maritime Industries COMPIT 16 Lecce / Italy, 9-11 May 2016, <http://www.compit.info>.
54. IPC, International Program Committee, member of the 4th IFAC International Conference on Intelligent Control and Automation Sciences (ICONS 2016), Reims, France, 1-3 June 2016, <http://icons2016.univ-reims.fr/>.
55. IPC, International Program Committee, member of the IFAC IAV 2016 - 9th IFAC Symposium on Intelligent Autonomous Vehicles in Leipzig, Germany, 29 June - 1 July 2016, <http://iav2016.inf.h-brs.de/index.html>.
56. IPC, International Program Committee, member of the IFAC AGRICONTROL 2016: 5th IFAC Conference on Sensing, Control and Automation for Agriculture 14 - 17 August, 2016; Double Tree By Hilton Hotel Seattle Airport; Seattle, Washington, USA, <http://ifac.cahnrs.wsu.edu>.
57. IPC, International Program Committee, member of the 7th IFAC Symposium on Mechatronic Systems, Loughborough University, 5th - 8th September 2016, <http://www.mechatronics2016.lboro.ac.uk/>.
58. Program Committee member of Automatica.it 2016, Rome (Italy), 5-7 September 2016. Annual scientific meeting of SIDRA, the Italian society of researchers and professors in Automatic Controls (SIDRA), <http://sidra2016.dia.uniroma3.it/>.
59. IPC, International Program Committee, member of the 12th Portuguese Conference on Automatic Control - CONTROLO 2016, Guimarães, Portugal, September 14th to 16th, 2016, <http://paginas.fe.up.pt/%7econtrolo2016/>.
60. IPC, International Program Committee, member of the 14th International Conference on Intelligent Autonomous Systems IAS-14 "Frontier of intelligent autonomous systems", Shanghai, China, 3-6 July 2016.

61. TPC, Technical Program Committee member of the Fourth International Workshop on Assistive Computer Vision and Robotics ACVR 2016, Amsterdam, The Netherlands - October 9th, 2016,
<http://iplab.dmi.unict.it/acvr2016/>.
62. IPC, International Program Committee, member of the 25th Mediterranean Conference on Control and Automation (MED 2017) Valletta, Malta on July 3-6, 2017,
<https://www.um.edu.mt/events/med2017>.
63. Associate Editor of the 20th IFAC World Congress, July 9-14, 2017, in Toulouse Convention Center, Toulouse, France.
64. TPC, Technical Program Committee member of the Fifth International Workshop on Assistive Computer Vision and Robotics ACVR 2017 Venice, Italy - 28th October 2017,
<http://iplab.dmi.unict.it/acvr2017>.
65. Associate Editor of the IEEE International Conference on Advanced Intelligent Mechatronics - AIM 2017, July 3-7, 2017, Munich, Germany,
<http://www.aim2017.org>.
66. Since December 29th, 2017 Editorial Board Member of Automatic Systems and Control - Open Access Journal published by MDPI.
<http://www.mdpi.com/journal/asc>
The journal was merged into the MDPI Applied Sciences (ISSN 2076-3417) journal in late September 2018. Since October 24th, 2018, I am serving as Editorial Board Member of MDPI Applied Sciences (ISSN 2076-3417) <https://www.mdpi.com/journal/applsci>.
67. TPC, Technical Program Committee member of the 13th APCA-International Conference on Control and Soft - Computing CONTROLLO 2018, University of the Azores, São Miguel Island, Ponta Delgada, Azores, Portugal, 4 - 6 June 2018. The conference was granted with the technical support of IEEE and IFAC.
<http://www.apcacontrollo.org/controllo2018/>.
68. Associate Editor (Contributed Papers) of the 2nd IEEE Conference on Control Technology and Applications CCTA 2018, August 21-24, 2018, Copenhagen, Denmark.
<http://ccta2018.iececss.org>.
69. IPC, International Programme Committee, member of the 15th International Conference on Intelligent Autonomous Systems (IAS - 15), Congress Center Baden-Baden, Germany, June 11-15, 2018. <http://conference.vde.com/ias/Pages/Homepage.aspx>.

70. IPC, International Programme Committee, member of the 26th Mediterranean Conference on Control and Automation (MED 2018), Zadar, Croatia on June 19-22, 2018. <http://www.med-control.org/med2018>.
71. IPC, International Program Committee, member of the 11th IFAC Conference on Control Applications in Marine Systems, Robotics, and Vehicles - IFAC CAMS 2018, 9th - 12th September 2018 in Opatija, Croatia, <http://ifac-cams2018.com>.
72. IPC, International Program Committee, member of the IFAC IAV 2019 - 10th IFAC Symposium on Intelligent Autonomous Vehicles in Gdansk, Poland, July 3-5, 2019, <http://www.konsulting.gda.pl/iav2019/>.
73. IPC, International Program Committee, member of the 14th APCA International Conference on Automatic Control and Soft Computing (CONTROLO 2020), Bragança, Portugal, July 1-3, 2020. <http://controlo2020.ipb.pt/>.
74. Technical Associate Editor (TAE with reference to the Technical Committee TC7.5 Transportation and Vehicle Systems - Intelligent Autonomous Vehicles - IAV) for the 21st IFAC World Congress 2020, which took place July 12-17, 2020 in Berlin, Germany (<https://www.ifac2020.org>).
75. IPC, International Program Committee, member of the 10th European Conference on Mobile Robots (ECMR 2021), online event, hosted by the University of Bonn, Germany from August 31st, 2021 to September 3rd, 2021. <https://ecmr2021.org/>.
76. IPC, International Program Committee, member of the 13th IFAC Conference on Control Applications in Marine Systems, Robotics, and Vehicles - IFAC CAMS 2021. Online from September 22 to 24, 2021 (Oldenburg, Germany). <https://cams-2021.com/>.
77. Associate Editor (Contributed Papers) for the 20th European Control Conference (ECC 22) from the 12th to the 15th of July 2022 (London, UK). <https://ecc22.euca-ecc.org/>.
78. IPC, International Program Committee, member of the 8th International Conference on Control, Decision and Information Technologies (CoDIT'22), 17-20 May, 2022 Istanbul, Turkey. <http://codit2022.com/>.
79. IPC, International Program Committee, member of the 17th International Conference on Intelligent Autonomous Systems (IAS-17), June 13-16, 2022, Zagreb, Croatia. <https://www.ias-17.org/>.

80. Associate Editor (Contributed Papers) for the 21st European Control Conference (ECC 23), June 13-16, 2023 in Bucharest, Romania. <https://ecc23.euca-ecc.org/>.
81. Scientific Program Committee member of the 15th International Conference on Marine Navigation and Safety of Sea Transportation, TransNav 2023 Conference, 21- 23 June 2023 in Gdynia, Poland (<https://transnav2023.umg.edu.pl/>).
82. IPC, International Program Committee, member of the 18th international conference on Intelligent Autonomous Systems (IAS18 - 2023) July 4 to 7, 2023 - Suwon, Korea (<https://www.ias-18.org/>).
83. Technical Associate Editor (TAE with reference to the Technical Committee TC7.5 Transportation and Vehicle Systems - Intelligent Autonomous Vehicles - IAV) for the 22nd IFAC World Congress 2023, 9 -14 July, 2023 in Yokohama, Japan.
<https://www.ifac2023.org/>.
84. IPC, International Program Committee, member of the 11th European Conference on Mobile Robots (ECMR 2023), 5 - 7 September 2023, Coimbra, Portugal.
<https://ecmr2023.isr.uc.pt/>.
85. IPC, International Program Committee, member of the 10th International Conference on Control, Decision and Information Technologies (CoDIT 2024), 01-04 July, 2024 at the University of Malta - Valletta Campus. <https://codit2024.com/>.
86. IPC, International Program Committee, member of the 15th IFAC Conference on Control Applications in Marine Systems, Robotics, and Vehicles (CAMS 2024), Blacksburg, Virginia, USA, on September 3-5, 2024. <https://ifac-cams2024.org/>
87. IPC, International Program Committee, member of the 11th International Conference on Control, Decision and Information Technologies (CoDIT 2025), 15-18 July, 2025 at Split, Croatia. <https://codit2025.org/>.
88. IPC, International Program Committee, member of the 16th IFAC Conference on Control Applications in Marine Systems, Robotics, and Vehicles (CAMS 2025), Wuhan, China, on August 25-28, 2025. <https://conferences.ifac-control.org/cams2025/>
89. IPC, International Program Committee, member of the 12th European Conference on Mobile Robots (ECMR 2025), 2 - 5 September 2025, Padova, Italy.
<https://ecmr2025.dei.unipd.it/>.

90. LOC, Local Organizing Committee, member of the 2025 IEEE International Workshop on Metrology for the Sea, October 8 - 10, 2025, Genova, Italy. <https://www.metrosea.org/>.
91. Associate Editor (Technical Committee TC7.2 Transportation and Vehicle Systems - Marine Systems) for IFAC World Congress, August 23-28, 2026, Busan, Republic of Korea, <http://www.ifac2026.org>.
92. Invited and Special Session Chair at MED 2026, the 34th Mediterranean Conference on Control and Automation, June 23 - 26, 2026, Università Politecnica delle Marche, Ancona (Italy). <https://www.med2026.org/>.
93. Associate Editor within the IPC, International Program Committee, of the 12th International Conference on Control, Decision and Information Technologies (CoDIT 2026), 13-16 July, 2026 in Bari, Italia. <https://codit2026.com/>.

Ph.D. International Committees

- January 2002, international member of a Ph.D. evaluation committee at the Instituto Superior Tecnico - Institute for Systems and Robotics, Technical University of Lisbon, Portugal.
- 27 December 2007, international member of a Ph.D. evaluation committee at the Instituto Superior Tecnico - Institute for Systems and Robotics, Technical University of Lisbon, Portugal.
- 31 March 2011, international member of a Ph.D. evaluation committee (1st Opponent) at the Norwegian University of Science and Technology NTNU Trondheim, Norway.
- February 2023, Ph.D. evaluation committee for a student at the Departamento de Engenharia Mecânica (PME), University of São Paulo (USP), Brazil.

Invited Sessions and Workshop Organization

- Organizer of the Invited Session on "Advances in Navigation, Guidance and Control of Mobile Robots in Partially Structured Environments" at the IAV04 5th IFAC Symposium on Intelligent Autonomous Vehicles (IAV 2004) held in Lisbon, Portugal from 5-7 July 2004. <http://iav04.isr.ist.utl.pt>
- Co-Organizer with Dr. Ing. Maria Silvia Zanolli from the Università Politecnica delle Marche, Italy, of the Invited Session on "Marine Robots Guidance and Control" at the

MED 2006 14th Mediterranean Conference on Control and Automation, Ancona, Italy, 28 - 30 June 2006.

- PC co-Chair and main organizer of the IFAC IAV 2010, Symposium on Intelligent Autonomous Vehicles held in Lecce (Italy), September 6-8, 2010, <http://iav2010.unile.it/>.
- Co-Organizer with Prof. Maarja Kruusmaa (Tallinn University of Technology, Estonia) and Prof. Gianluca Antonelli (University of Cassino, Italy) of the Marine Robotics Workshop at the 15th International Conference On Advanced Robotics ICAR 2011 Tallinn, June 20th 2011.
- Guest Editor of a Special Issues on "Autonomous Surface Vessels: current and future perspectives" for the Elsevier Journal "Ocean Engineering". Submission opening on April 1, 2021 and submission closing on August 30, 2021.
- Guest Editor of a Special Issues on "Autonomous Marine Robotics Operations" for the Elsevier Journal "Ocean Engineering". Manuscript Submission opening on May 15, 2022 and submission closing on September 1, 2022.
- Co-organizer together with a few other ISME colleagues of the Marine Robotics Workshop held in Rome, Italy, at the Italian Conference on Robotics and Intelligent Machines of I-RIM (Institute of Robotics and Intelligent Machines, <https://i-rim.it/>) edition of 2019, 2022, 2023 and 2024.

Research Projects Coordination and participation

- Participation to the national project PRIN 2002 "Controllo a commutazione con supervisione", Protocollo 2002093142-004, Co-ordinatore scientifico Prof. Edoardo Mosca, Unità di Ricerca Università Politecnica delle Marche (Responsabile Scientifico Prof. Leopoldo Ietto).
- Participation to the national project PRIN 2004 "Coordinamento, Cooperazione e Controllo di Sistemi Mobili di Manipolazione", Protocollo 2004094134-003, Coordinatore scientifico Prof. Stefano Chiaverini, Unità di Ricerca Università di Genova (Responsabile Scientifico Prof. Giuseppe Casalino).
- Responsible for Local Basic Research Projects (Ricerca di Base ex 60%) at the University of Salento since 2002 to November 30th, 2019.

- Scientific Responsible of the Regional Project progetto Esplorativo "DEMETRA ARM: Sviluppo di un braccio robotico per applicazioni agricole" (June 2007 - June 2008) for a budget of about 200K euro. Project code Cod. CIP: PE_130.
- Scientific Responsible of an Industrial Project with ILVA (Taranto, Italy) started in June 2010 (ended in 2013) on the modeling of the Basic Oxygen Steelmaking (BOS) process for a budget of about 100K euro.
- University of Salento Scientific Responsible of the Industrial Project SASMA (Sistema Automatico Sottomarino per il Monitoraggio Ambientale ad alta precisione) with Diamec Technology (Bari, Italy) from November 23rd, 2009 to November 20, 2011 on the navigation, modeling and control of an underwater robot for environmental applications for a budget of about 50K euro. The project was funded by POR PUGLIA 2007-2013 - Asse I Linea 1.1, Azione 1.1.2, Bando "Aiuti agli Investimenti in Ricerca per le PMI": project number RLVP0G4.
- Participation to the FP7 project CHAT : Control of heterogeneous automation systems: technologies for scalability, reconfigurability and security Funded under: 7th FWP (Seventh Framework Programme).
Area: Network embedded and control systems (ICT-2007.3.7).
Project reference: 224428.
Total cost: 3.58 million euro.
EU contribution: 2.3 million euro.
Execution: From 2008-09-01 to 2011-08-31.
Duration: 36 months.
Project status: Completed.
Contract type: Collaborative project (generic).
http://cordis.europa.eu/project/rcn/87021_en.html
- Participation (and local responsible) to the FP7 project CO3 AUVS : Cooperative cognitive control for autonomous underwater vehicles. Funded under: 7th FWP (Seventh Framework Programme).
Area: Cognitive Systems, Interaction, Robotics (ICT-2007.2.2).
Project reference: 231378.
Total cost: 3.33 million euro.
EU contribution: 2.55 million euro.
Execution: From 2009-02-01 to 2012-01-31.

Duration: 36 months.

Project status: Completed.

Contract type: Collaborative project (generic)

http://cordis.europa.eu/project/rcn/89244_en.html

<http://robotics.jacobs-university.de/projects/Co3-AUVs/index.htm>

- Scientific Responsible of Local Research Unit for the National project PRIN 2010-2011 MARIS: Marine Autonomous Robotics for InterventionS approved in November 2012. National coordinator, Prof. Giuseppe Casalino, University of Genova. The project kick-off was in February 2013 and the project duration is of 36 months. The overall project cost is 1.798.040 euro and the budget for the local unit is of approximately 130 Keuro.
<http://www.graal.dibris.unige.it/projects/3>
- Scientific Responsible of Local Research Unit for the H2020 - Blue Growth BG-06-2014: *Delivering the sub-sea technologies for new services at sea* Project DexROV: Dexterous ROV: effective dexterous ROV operations in presence of communication latencies
Funding scheme: Blue Growth,
Proposal number: 635491 Duration (months): 42
Maximum grant awarded to the Action (Euro): 4,631,182.50
Project start date: 1st, March 2015 (ended 31 August 2018)
http://cordis.europa.eu/project/rcn/193333_en.html
<http://www.dexrov.eu>
- Scientific Responsible of Local Research Unit for the H2020 - SC5-2015-one-stage: *H2020-EU.3.5.3. - Ensuring the sustainable supply of non-energy and non-agricultural raw materials* Project ROBUST: Robotic subsea exploration technologies
Funding scheme: RIA - Research and Innovation action H2020-SC5-2015-one-stage,
Proposal number: 690416 Duration (months): 50
Maximum grant awarded to the Action (Euro): 5,986,722.50
Project start date: 1st December 2015 (ended on 31-01-2020)
http://cordis.europa.eu/project/rcn/199910_en.html
<http://eu-robust.eu>
- Coordinator of the H2020 - LEIT ICT 23 Call 1 Project WiMUST: Widely scalable Mobile Underwater Sonar Technology
Funding scheme: Research and Innovation action,
Proposal number: 645141 Duration (months): 36

Maximum grant awarded to the Action (Euro): 3,970,081.25

Project start date: 1st, February 2015 (ended on 31 January 2018)

http://cordis.europa.eu/project/rcn/194287_en.html

<http://www.wimust.eu>

- Scientific Responsible of Local Research Unit for the H2020-INFRAIA-2017-1-two-stage H2020-EU.1.4.1.2. - *Integrating and opening existing national and regional research infrastructures of European interest* Project EUMarineRobots: Marine robotics research infrastructure network

Funding scheme: RIA - Research and Innovation action

Project ID: 731103, Duration (months): 36

Maximum grant awarded to the Action (Euro): 4,998,736.75

Project start date: 1st March 2018 (ended on 30-11-2021)

https://cordis.europa.eu/project/rcn/212588_en.html

<https://www.eumarinerobots.eu/>

- Participation (initially Scientific Responsible) to the national project VE.M.A.S.A. (Veicolo Marino Autonomo Sicurezza e Ambiente)

Call: POR Puglia FESR-FSE 2014-2020 Asse prioritario 1 - Ricerca, sviluppo tecnologico, innovazione Azione 1.6

Interventi per il rafforzamento del sistema innovativo regionale e nazionale e incremento della collaborazione tra imprese e strutture di ricerca e il loro potenziamento

Project ID: SPVLAT3

Start date: October 2018 Planned duration: 18 months

Overall Estimated Budget (Euro): 1.922.209,00

Unisalento Estimated Budget (Euro): 252.000,00

<http://www.sistema.puglia.it/portal/page/portal/SistemaPuglia/innonetwork>

- Scientific Responsible of Unisalento Local Research Unit of the national project OmniAGV 4.0 (Veicolo a guida automatica omnidirezionale, abilitante per le specifiche Industry 4.0)
- Call: POR Puglia FESR-FSE 2014-2020 Asse prioritario 1 - Ricerca, sviluppo tecnologico, innovazione Azione 1.6

Interventi per il rafforzamento del sistema innovativo regionale e nazionale e incremento della collaborazione tra imprese e strutture di ricerca e il loro potenziamento

Project ID: X7H8LZ3

Start date: October 2018 Planned duration: 18 months

Overall Estimated Budget (Euro): 1.402.900,26

Unisalento Estimated Budget (Euro): 127.892,36

<http://www.sistema.puglia.it/portal/page/portal/SistemaPuglia/innonetwork>

- Scientific Responsible of the research activity financed by the University of Genova under the call

Bando per l'incentivazione alla progettazione europea - Mission 1 Promoting Competitiveness 2020

Project: H2020 ICT-46-2020, Robotics in Application Areas and Coordination & Support action submitted in June 2020 DRIIM - Distributed underwater Robotic-based Infrastructure Inspection for Maintenance that was evaluated eligible, but not financed.

Start date: 7 April 2021

Planned duration: 24 months

Budget (Euro): 50.000,00

- Scientific Responsible of the research project "DAMPS - Distributed Autonomous Mobile Passive Sonar system", starting from Phase 2 (the Phase 1 Scientific Responsible was Prof. Andrea Caiti of the University of Pisa, former ISME Director)

Piano Nazionale della Ricerca Militare (PNRM) a2018.165

Planned duration: 48 months

Start date of Phase 1: 1 February 2020

Start date of Phase 2: 04 January 2022

Budget (Euro): 1.296.148,00 (Phase 1)

Budget (Euro): 1.455.443,00 (Phase 2)

Budget (Euro): 2.143.765,00 (Phase 3)

Budget (Euro): 2.095.622,00 (Phase 4)

- Scientific Responsible of the activity "Project 1 - Fleets of autonomous and semi-autonomous robots (terrestrial, marine, and aerial) in port environment" within Spoke 4 Smart and Sustainable Ports of the RAISE (Robotics and AI for socio-economic empowerment) PNRR (1.5 (M4C2)) initiative.

Start date: October 2022

Planned duration: 36 months

- Coordinator (Consortium Coordinator and University of Genova Scientific Responsible) of the European project FABIS "Fabbisogni e Soluzioni per l'Integrazione delle Competenze Subacquee", call *INTERREG VI A Italia-Francia "Marittimo" 2021-2027 - II Avviso, Priorità 1: Un'area transfrontaliera attrattiva, improntata alla modernizzazione*

intelligente e sostenibile.

Planned duration: 36 months

Planned start: 1st February 2025

Budget (Euro): 1.644.278,71

- Scientific Responsible of the University of Genova partner of the research project “SHARK - Submarine High-Tech Autonomous Research Kraft”, call PNS-2024-R-05 financed by Polo Nazionale della Dimensione Subacquea, 2025 (details to be added).

Reviewing Activities

In the last five years I have served as peer reviewer for many (approximately 3 per year or more) international conferences in Controls and Robotics. I regularly serve as peer reviewer for numerous Journals in the area of Robotics, Systems and Control Engineering. In particular I have served as reviewer for the following International Journals:

ACSP INTERNATIONAL JOURNAL OF ADAPTIVE CONTROL AND SIGNAL PROCESSING

ACTA MECHANICA (Springer Nature)

ADVANCES IN MECHANICAL ENGINEERING (SAGE Journals)

ANNUAL REVIEWS IN CONTROL (Elsevier)

APPLICATIONS IN ENGINEERING SCIENCE (Elsevier)

APPLIED OCEAN RESEARCH (Elsevier)

ASIAN JOURNAL OF CONTROL

ASME JOURNAL OF DYNAMIC SYSTEMS, MEASUREMENT AND CONTROL

ASME JOURNAL OF OFFSHORE MECHANICS AND ARCTIC ENGINEERING

AUTOMATICA

CONTROL ENGINEERING PRACTICE (Elsevier)

IASTED INTERNATIONAL JOURNAL OF ROBOTICS AND AUTOMATION

IEE Proc. CONTROL THEORY & APPLICATIONS

IEEE ACCESS

IEEE INTELLIGENT TRANSPORTATION SYSTEMS MAGAZINE

IEEE INTELLIGENT TRANSPORTATION SYSTEMS TRANSACTIONS

IEEE JOURNAL OF OCEANIC ENGINEERING

IEEE ROBOTICS AND AUTOMATION LETTERS

IEEE ROBOTICS AND AUTOMATION MAGAZINE

IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS

IEEE TRANSACTIONS ON AUTOMATION SCIENCE AND ENGINEERING

IEEE TRANSACTIONS ON CONTROL SYSTEMS TECHNOLOGY
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS
IEEE TRANSACTIONS ON ROBOTICS (previously IEEE TRANSACTIONS ON ROBOTICS AND AUTOMATION)
IEEE TRANSACTIONS ON SYSTEMS, MAN, AND CYBERNETICS-PART C
INTERNATIONAL JOURNAL OF ADAPTIVE CONTROL AND SIGNAL PROCESSING
INTERNATIONAL JOURNAL OF CONTROL, AUTOMATION, AND SYSTEMS
INTERNATIONAL JOURNAL OF CONTROL
INTERNATIONAL JOURNAL OF MECHATRONICS
INTERNATIONAL JOURNAL OF ROBOTICS RESEARCH
INTERNATIONAL JOURNAL OF ROBUST AND NONLINEAR CONTROL
INTERNATIONAL JOURNAL OF SYSTEMS SCIENCE
IRANIAN JOURNAL OF ELECTRICAL AND COMPUTER ENGINEERING (IJECE)
JOURNAL OF ENGINEERING FOR THE MARITIME ENVIRONMENT (SAGE)
JOURNAL OF INTELLIGENT & ROBOTIC SYSTEMS
JOURNAL OF NON-LINEAR MECHANICS
JOURNAL OF OCEAN ENGINEERING AND MARINE ENERGY (Springer)
JOURNAL OF OCEAN ENGINEERING AND SCIENCE (Elsevier)
MECHATRONICS
OCEAN ENGINEERING (Elsevier)
ROBOTICA
ROBOTICS AND AUTONOMOUS SYSTEMS (RAS Journal)
SCIENTIFIC REPORTS (Springer Nature)
SIMULATION MODELLING PRACTICE AND THEORY

Since 2003 I have served as "Expert" of the European Commission as member of the review and selection panels of international Research Projects in Robotics and Automation of FP5, FP6 and FP7. In particular, in May 2013 I was appointed as Reviewer of an ongoing European FP7 ICT STREP proposal on Marine Robotics. In the period January 2010 - October 2013 I have been appointed as independent expert for the assessment of experiment proposals submitted in response to the FP7 Project ECHORD as well as for a number of FP7 ECHORD final reviews. In the period July - August 2011 I served as Evaluator of Robotics Projects for the Croatian Science Foundation. Since 2018 I have served several times (the last in 2026) as referee for the Research Council of Norway in the area of marine robotics. Since 2019 to early 2025 I served on a regular basis as evaluator of Marine Robotics project proposals on behalf of the Cyprus

Research and Innovation Foundation (IRIS).

Publications

Available in a separate attached document.

Publications of Giovanni Indiveri

updated to February 26th, 2026

1 International Journals (rir)

Published papers:

- 33rir** Gennaro Ucciero, Marzia Cianflone, Andrea Capuozzo, Francesco Wanderlingh, Andrea Tiranti, Francesca Acampa, Giovanni Indiveri, Vincenzo Lippiello, Simonetta Frascchetti, TECHNOLOGIES FOR MARINE BIODIVERSITY MONITORING AND MAPPING: A SYSTEMATIC REVIEW. *Marine Pollution Bulletin* 227 (2026) 119432, DOI: 10.1016/j.marpolbul.2026.119432, <https://doi.org/10.1016/j.marpolbul.2026.119432>
- 32rir** Juri Khanmeh, Bilal Wehbe, Enrico Simetti, and Giovanni Indiveri, TRACKING DATA OF A REMOTELY OPERATED VEHICLE AND ITS TETHER USING A MOTION CAPTURE SYSTEM AND A TENSION SENSOR. *Sci Data* (2025), DOI: 10.1038/s41597-025-06347-0, <https://doi.org/10.1038/s41597-025-06347-0>
- 31rir** Andrea Tiranti, Francesco Wanderlingh, Enrico Simetti, Marco Baglietto, Giovanni Indiveri, and Antonio Pascoal, A DISTRIBUTED MOTION PLANNING APPROACH TO COOPERATIVE UNDERWATER ACOUSTIC SOURCE TRACKING, *Ocean Engineering*, Volume 344, 15 January 2026, 123305, DOI: 10.1016/j.oceaneng.2025.123305, <https://doi.org/10.1016/j.oceaneng.2025.123305>
- 30rir** Andrea Tiranti, Paolo Di Lillo, Francesco Wanderlingh, Enrico Simetti, Marco Baglietto, Gianluca Antonelli, and Giovanni Indiveri, MOTION OPTIMIZATION STRATEGY FOR PASSIVE ACOUSTIC MONITORING WITH A TEAM OF AUVs CONSIDERING INTERMITTENT COMMUNICATION, *IEEE Journal of Oceanic*, vol. 50, no. 4, pp. 2782 - 2796, Oct. 2025, DOI: 10.1109/JOE.2025.3585641, <https://doi.org/10.1109/JOE.2025.3585641>
- 29rir** Marco Bibuli, Enrica Zereik, Daniela De Palma, Roberta Ingrosso, and Giovanni Indiveri, ANALYSIS OF AN UNMANNED UNDERWATER VEHICLE PROPULSION MODEL FOR MOTION CONTROL, *JGCD - Journal of Guidance, Control, and Dynamics*, Vol. 45, No. 6 (2022), pp. 1046-1059, DOI: 10.2514/1.G005692, <https://doi.org/10.2514/1.G005692>
- 28rir** Enrico Simetti and Giovanni Indiveri, CONTROL ORIENTED MODELING OF A TWIN THRUSTER AUTONOMOUS SURFACE VEHICLE, *Ocean Engineering*, Volume 243, 2022, DOI: 10.1016/j.oceaneng.2021.110260, <https://doi.org/10.1016/j.oceaneng.2021.110260>
published online on 9th December 2021
- 27rir** Daniela De Palma, Giovanni Indiveri and Gianfranco Parlangeli, CONTROL PROTOCOLS FOR RANGE-BASED NAVIGATION OF A NETWORKED GROUP OF UNDERWATER VEHICLES, *Front. Robot. AI*, Volume 7, Article 519985, pp. 1 - 14, 09 December 2020,

DOI: 10.3389/frobt.2020.519985,
<https://doi.org/10.3389/frobt.2020.519985>

26rir Enrico Simetti, Giovanni Indiveri and António Pascoal, WIMUST: A COOPERATIVE MARINE ROBOTIC SYSTEM FOR AUTONOMOUS GEOTECHNICAL SURVEYS, *Journal of Field Robotics*, Volume 38, Issue 2, March 2021, Pages 268 - 288, (First published online 16 September 2020), DOI: 10.1002/rob.21986,
<https://doi.org/10.1002/rob.21986>

25rir Daniele Di Vito, Daniela De Palma, Enrico Simetti, Giovanni Indiveri and Gianluca Antonelli, EXPERIMENTAL VALIDATION OF THE MODELING AND CONTROL OF A MULTIBODY UNDERWATER VEHICLE MANIPULATOR SYSTEM FOR SEA MINING EXPLORATION, *Journal of Field Robotics*, Volume 38, Issue 2, March 2021, Pages 171 - 191, (First published online 15 August 2020), DOI: 10.1002/rob.21982,
<https://doi.org/10.1002/rob.21982>

24rir K. G. Kebkal, A. G. Kebkal, E. V. Glushko, V. K. Kebkal, L. Sebastião, A. Pascoal, J. Ribeiro, H. Silva, M. Ribeiro, and G. Indiveri, UNDERWATER ACOUSTIC MODEMS WITH SYNCHRONOUS CHIP-SCALE ATOMIC CLOCKS FOR SCALABLE TASKS OF AUV UNDERWATER POSITIONING, *Gyroscope and Navigation*, Volume 10, Number 4, Pages 313-321, 2019, DOI: 10.1134/S2075108719040096,
<https://doi.org/10.1134/S2075108719040096>

23rir Roberta Ingrosso, Daniela De Palma, Giulio Avanzini and Giovanni Indiveri, DYNAMIC MODELING OF UNDERWATER MULTI-HULL VEHICLES, *Robotica*, Volume 38, Issue 9, September 2020, pp. 1682 - 1702 (Published online by Cambridge University Press: 25 November 2019), DOI: 10.1017/S0263574719001693,
<https://doi.org/10.1017/S0263574719001693>

22rir Andreas Birk, Tobias Doernbach, Christian Atanas Müller, Tomasz Luczynski, Arturo Gomez Chavez, Daniel Köhntopp, Andras Kupcsik, Sylvain Calinon, Ajay K. Tanwani, Gianluca Antonelli, Paolo di Lillo, Enrico Simetti, Giuseppe Casalino, Giovanni Indiveri, Luigi Ostuni, Alessio Turetta, Andrea Caffaz, Peter Weiss, Thibaud Gobert, Bertrand Chemisky, Jeremi Gancet, Torsten Siedel, Shashank Govindaraj, Xavier Martinez, and Pierre Letier, DEXTEROUS UNDERWATER MANIPULATION FROM ONSHORE LOCATIONS: STREAMLINING EFFICIENCIES FOR REMOTELY OPERATED UNDERWATER VEHICLES, in *IEEE Robotics & Automation Magazine*, vol. 25, no. 4, pp. 24-33, Dec. 2018, DOI: 10.1109/MRA.2018.2869523,
<https://doi.org/10.1109/MRA.2018.2869523>

21rir Gianluca Antonelli, Filippo Arrichiello, Andrea Caiti, Giuseppe Casalino, Daniela De Palma, Giovanni Indiveri, Matteo Razzanelli, Lorenzo Pollini, and Enrico Simetti, ISME ACTIVITY ON THE USE OF AUTONOMOUS SURFACE AND UNDERWATER VEHICLES FOR ACOUSTIC SURVEYS AT SEA, *ACTA IMEKO*, June 2018, Volume 7, Number 2, Pages 24-31

ISSN: 2221-870X, DOI: 10.21014/acta.imeko.v7i2.539,
<https://doi.org/10.21014/acta.imeko.v7i2.539>

20rir Daniela De Palma, Filippo Arrichiello, Gianfranco Parlangei and Giovanni Indiveri, UNDERWATER LOCALIZATION USING SINGLE BEACON MEASUREMENTS: OBSERVABILITY ANALYSIS FOR A DOUBLE INTEGRATOR SYSTEM, *Ocean Engineering*, Volume 142, 2017, Pages 650 - 665, DOI: 10.1016/j.oceaneng.2017.07.025,
<https://doi.org/10.1016/j.oceaneng.2017.07.025>

19rir Casalino, G., Caccia, M., Caselli, S., Melchiorri, C., Antonelli, G., Caiti, A., Indiveri, G., Cannata, G., Simetti, E., Torelli, S., Sperindé, A., Wanderlingh, F., Muscolo, G., Bibuli, M., Bruzzone, G., Zereik, E., Odetti, A., Spirandelli, E., Ranieri, A., Aleotti, J., Rizzini, D.L., Oleari, F., Kallasi, F., Palli, G., Scarcia, U., Moriello, L. and Cataldi, E., UNDERWATER INTERVENTION ROBOTICS: AN OUTLINE OF THE ITALIAN NATIONAL PROJECT MARIS, *Marine Technology Society Journal* Volume 50, Issue 4, July-August 2016, Pages 98 -107, DOI: 10.4031/MTSJ.50.4.7,
<https://doi.org/10.4031/MTSJ.50.4.7>

18rir Di Lillo, P.A., Simetti, E., De Palma, D., Cataldi, E., Indiveri, G., Antonelli, G. and Casalino, G., ADVANCED ROV AUTONOMY FOR EFFICIENT REMOTE CONTROL IN THE DEXROV PROJECT, *Marine Technology Society Journal* Volume 50, Issue 4, July-August 2016, Pages 67-80, DOI: 10.4031/MTSJ.50.4.8,
<https://doi.org/10.4031/MTSJ.50.4.8>

17rir Abreu, P., Antonelli, G., Arrichiello, F., Caffaz, A., Caiti, A., Casalino, G., Volpi, N.C., De Jong, I.B., De Palma, D., Duarte, H., Gomes, J.P., Grimsdale, J., Indiveri, G., Jesus, S., Kebkal, K., Kelholt, E., Pascoal, A., Polani, D., Pollini, L., Simetti, E. and Turetta, A., WIDELY SCALABLE MOBILE UNDERWATER SONAR TECHNOLOGY: AN OVERVIEW OF THE H2020 WIMUST PROJECT, *Marine Technology Society Journal* Volume 50, Issue 4, July-August 2016, Pages 42-53, DOI: 10.4031/MTSJ.50.4.3,
<https://doi.org/10.4031/MTSJ.50.4.3>

16rir Giovanni Indiveri, Daniela De Palma, and Gianfranco Parlangei, SINGLE RANGE LOCALIZATION IN 3-D: OBSERVABILITY AND ROBUSTNESS ISSUES, *IEEE Transactions On Control Systems Technology*, Volume: 24, Issue: 5, pages 1853-1860, 2016, DOI: 10.1109/TCST.2015.2512879,
<https://doi.org/10.1109/TCST.2015.2512879>

15rir Daniela De Palma and Giovanni Indiveri, OUTPUT OUTLIER ROBUST STATE ESTIMATION, *Int. Journal Adapt. Control Signal Process*, Volume 31, Issue 4, Special Issue: Adaptive Control and Signal Processing in Marine Systems, April 2017, Pages 581-607 (First Published on Wiley Online Library, 2016), DOI: 10.1002/acs.2673,
<https://doi.org/10.1002/acs.2673>

- 14rir** Gianfranco Parlangeli and Giovanni Indiveri, SINGLE RANGE OBSERVABILITY FOR COOPERATIVE UNDERACTUATED UNDERWATER VEHICLES, *Annual Reviews in Control*, Volume 40, 2015, Pages 129 - 141, DOI: 10.1016/j.arcontrol.2015.09.008,
<https://doi.org/10.1016/j.arcontrol.2015.09.008>
- 13rir** Antonio Paolo Carlucci, Antonio Ficarella, Giovanni Indiveri and Paolo Presicce, AN IMPROVED PARAMETER IDENTIFICATION SCHEMA FOR THE DYNAMIC MODEL OF LD CONVERTERS, *Journal of Process Control* Volume 31, July 2015, Pages 64 - 72,
DOI: 10.1016/j.jprocont.2015.04.008,
<https://doi.org/10.1016/j.jprocont.2015.04.008>
- 12rir** Giovanni Indiveri and Alessandro Malerba, COMPLEMENTARY CONTROL FOR ROBOTS WITH ACTUATOR REDUNDANCY: AN UNDERWATER VEHICLE APPLICATION, *Robotica*, Volume 35, Issue 1, January 2017, pp. 206-223. [Published online: 06 March 2015],
DOI: 10.1017/S0263574715000119,
<https://doi.org/10.1017/S0263574715000119>
- 11rir** Giovanni Indiveri, AN OUTLIER ROBUST FILTER FOR MARITIME ROBOTICS APPLICATIONS, *Paladyn, Journal of Behavioral Robotics*. Volume 4, Issue 4 Pages 196-203, ISSN (Print) 2081-4836, December 2013, DOI: 10.2478/pjbr-2013-0012,
<https://doi.org/10.2478/pjbr-2013-0012>
- 10rir** Nicola Ivan Giannoccaro, Giovanni Indiveri and Luigi Spedicato, LEAST ENTROPY-LIKE APPROACH FOR RECONSTRUCTING L-SHAPED SURFACES USING A ROTATING ARRAY OF ULTRASONIC SENSORS, *International Journal of Soft Computing And Software Engineering (JSCSE)* Vol. 2, No. 6, June 2012, pp. 1 - 15, DOI: 10.7321/jscse.v2.n6.1,
<https://doi.org/10.7321/jscse.v2.n6.1>
- 9rir** Filippo Arrichiello, Stefano Chiaverini, Giovanni Indiveri and Paola Pedone, THE NULL-SPACE BASED BEHAVIORAL CONTROL FOR MOBILE ROBOTS WITH VELOCITY ACTUATOR SATURATIONS, *The International Journal of Robotics Research* Vol. 29, No. 10, September 2010, pp. 1317 - 1337, DOI: 10.1177/0278364909358788,
<https://doi.org/10.1177/0278364909358788>
- 8rir** Giovanni Indiveri, AN ENTROPY-LIKE ESTIMATOR FOR ROBUST PARAMETER IDENTIFICATION, *Entropy*, Vol. 11, October 2009, pp. 560-585; DOI:10.3390/e11040560,
<https://doi.org/10.3390/e11040560>
- 7rir** Giovanni Indiveri, SWEDISH WHEELED OMNIDIRECTIONAL MOBILE ROBOTS: KINEMATICS ANALYSIS AND CONTROL, *IEEE Transactions On Robotics*, Vol. 25, No. 1, February 2009, pp. 164 - 171, DOI: 10.1109/TRO.2008.2010360,
<https://doi.org/10.1109/TRO.2008.2010360>
- 6rir** Cosimo Distante, Giovanni Indiveri and Giulio Reina, AN APPLICATION OF MOBILE ROBOTICS FOR OLFACTORY MONITORING OF HAZARDOUS INDUSTRIAL SITES, *The Industrial Robot*,

vol. 36, 2009, pp. 51-59. ISSN: 0143-991X, DOI:10.1108/01439910910924675,
<https://doi.org/10.1108/01439910910924675>

5rir M. Aicardi, G. Cannata, G. Casalino and G. Indiveri, CUSP-FREE, TIME-INVARIANT, 3D FEEDBACK CONTROL LAW FOR A NONHOLONOMIC FLOATING ROBOT, *The International Journal of Robotics Research*, Vol. 20, Nr. 4, April 2001, pp. 300-311,
DOI: 10.1177/02783640122067417,
<https://doi.org/10.1177/02783640122067417>

4rir Ernst Niebur, Mounya Elhilali, Iyad Obeid, Justin Werfel, Mark Blanchard, Mattia Frasca, Kaushik Ghose, Constanze Hofstoetter, Giovanni Indiveri and Mark W. Tilden, RESEARCH, ROBOTS, AND REALITY: A STATEMENT ON CURRENT TRENDS IN BIOROBOTICS (Short Communication), *Behavioral and Brain Sciences*, Volume 24, Issue 06, Cambridge University Press, December 2001, pp. 1072 - 1073. DOI 10.1017/S0140525X01450126,
<https://doi.org/10.1017/S0140525X01450126>

3rir M. Caccia, G. Indiveri, G. Veruggio, MODELLING AND IDENTIFICATION OF OPEN-FRAME VARIABLE CONFIGURATION UNMANNED UNDERWATER VEHICLES, *IEEE Journal of Oceanic Engineering*, vol. 25, no. 2, April 2000, pp. 227 - 240, DOI: 10.1109/48.838986,
<https://doi.org/10.1109/48.838986>

2rir G. Indiveri, E. Scalas, A. C. Levi, A. Gliozzi, MORPHOLOGIES IN TWO-DIMENSIONAL GROWTH WITH ATTRACTIVE LONG-RANGE INTERACTIONS, *Physica A*, vol. 273, 1999, pp. 217-230,
DOI: 10.1016/S0378-4371(99)00231-9,
[https://doi.org/10.1016/S0378-4371\(99\)00231-9](https://doi.org/10.1016/S0378-4371(99)00231-9)

1rir G. Indiveri, A. C. Levi, A. Gliozzi, E. Scalas, H. Möhwald, CLUSTER GROWTH WITH LONG RANGE INTERACTIONS, *Thin Solid Films* vol. 284-285, 1996, pp.106-109,
DOI: 10.1016/S0040-6090(95)08282-4,
[https://doi.org/10.1016/S0040-6090\(95\)08282-4](https://doi.org/10.1016/S0040-6090(95)08282-4)

2 Book Chapters (bc)

13bc Francesco Wanderlingh, Enrico Simetti, and Giovanni Indiveri, AUTONOMY IN THE MARITIME DOMAIN, *Maritime Autonomous Vehicles: Methods and measurements*, Chapter 2, Frank Ehlers (Editor), 271 pages, IET - The Institution of Engineering and Technology, 2025, pp. 7 - 28, DOI: 10.1049/SBRA565E_ch2,
https://doi.org/10.1049/SBRA565E_ch2

12bc Francesco Wanderlingh, Enrico Simetti, and Giovanni Indiveri, MARINE ROBOT CONTROL, Reference Module in Materials Science and Materials Engineering, Elsevier, *Encyclopedia of Systems and Control Engineering 2026*, DOI: 10.1016/B978-0-443-14081-5.00149-5,
<https://doi.org/10.1016/B978-0-443-14081-5.00149-5>

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