

Europass Curriculum Vitae

Personal information

Surname / First name

Telephone

Personal Email

Nationality

Gender

Riccardo Muradore

+39 045 802 7835

riccardo.muradore@univr.it

Italian

M

Work experience

Date

Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

01 October 2020 -

Associate Professor

Research on: Robotics, Surgical Robotics, Teleoperation, Predictive Maintenance, Networked Control Systems, Formal Verification, Control Theory, Adaptive Optics

Università degli Studi di Verona, Department of Engineering for Innovation Medicine, Strada Le Grazie 15, 37134 Verona, Italia

Research and High education

Date

Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

31 December 2012 - 30 September 2020

Assistant Professor

Research on: Robotics, Teleoperation, Networked Control Systems, Formal Verification, Control Theory, Adaptive Optics

Università degli Studi di Verona, Dipartimento di Informatica, Strada Le Grazie 15, 37134 Verona, Italia

Research and High education

Date

Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

1 June 2008 - 30 December 2012

Research Fellow

Research on: Robotics, Teleoperation, Networked Control Systems, Formal Verification, Control Theory, Adaptive Optics

Università degli Studi di Verona, Dipartimento di Informatica, Strada Le Grazie 15, 37134 Verona, Italia

Research and High education

Date

Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

1 June 2005 - 31 May 2008

Control Engineer of Adaptive Optics systems

Design of advanced control architectures

European Southern Observatory, Adaptive Optics Department, Munich, Germany

Development of Ground-based Telescopes

Date

Occupation or position held

Main activities and responsibilities

1 June 2003 - 31 May 2005

Research Fellow

Design of control systems for chemical plants

More information at

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<https://scholar.google.it/citations?user=EwNYcxwAAAAJ&hl=en>

<https://orcid.org/0000-0002-0287-6896>

Name and address of employer

Type of business or sector

Education and training

Date

Title of qualification awarded

Principal subjects/Occupational skills covered

Name and type of organization providing education and training

Date

Title of qualification awarded

Name and type of organization providing education and training

Date

Title of qualification awarded

Principal subjects/Occupational skills covered

Name and type of organization providing education and training

Personal skills and competences

Mother tongue

Other language(s)

*Self-assessment
European level^(*)*

Inglese

Teaching

Spin off

2022

Università degli Studi di Padova, Department of Chemical Engineering Principles and Practice

Research and High education

21 February 2003

Ph.D degree in "Information Engineering and Industrial Electronics"

Robust Control of Systems with Sharp Resonances

Università degli Studi di Padova, Italia

November 1999

Engineering qualifying examination

Università degli Studi di Padova, Italia

20 April 1999

Laurea degree in Information Engineering

Satellite Attitude Estimation based on Differential GPS

Università degli Studi di Padova, Italia

Italian

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user

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

Master degree: Dynamic Systems; Advanced Control Systems; Physical human-robot interaction; Robotics, Vision and AI.

Bachelor degree: Introduzione ai Segnali e Sistemi con Laboratorio; Controlli Automatici

<https://www.dimi.univr.it/?ent=persona&id=5039&lang=en#tab-didattica>

Co-founder of the spin off **NEEDLEYE Robotics** at the University of Verona.

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<https://orcid.org/0000-0002-0287-6896>

Recent Projects

- 2024 Principal investigator of the project *AIPRAH AI-Powered Robotic Assistant for Health-care*, as part of the achievement of the Program “Future Artificial Intelligence Research (FAIR)” funded by EU – NextGenerationEU, within the project “Partenariati estesi alle università, ai centri di ricerca, alle aziende per il finanziamento di progetti di ricerca di base” of the Piano Nazionale di Ripresa e Resilienza, Missione 4 “Istruzione e ricerca” – Componente 2 “Dalla ricerca all’impresa – Investimento 1.3”, codice progetto FAIR PE00000013, codice CUP C63C22000770006.
Budget: **225k€**
Period: 1 May 2024–31 October 2025.
- 2023 Coordinator of the Horizon Europe project *ROBIOPSY AI and Robotics for Prostate Biopsy*, Call: HORIZON-EIC-2022-TRANSITION-01, Type of action: HORIZON-EIC. Total Budget: **2,5M€**; UNIVR Budget: **455k€**
Period: 1 May 2023–30 April 2026.
<https://robiopsy-project.eu/>
- 2022 Principal Investigator and Local coordinator of the Horizon Europe project *GEYEDANCE AI guidance for robot-assisted eye surgery*, Call: HORIZON-CL4-2021-DIGITAL-EMERGING-01-10: AI, Data and Robotics at work, Type of action: IA. Total Budget: **3,3M€**; UNIVR Budget: **578k€**
Period: 1 September 2022–30 August 2025;
<https://geyedance.eu/>
- 2022 Principal Investigator of the project *Sviluppo di un endoscopio termico visibile*, funded by RobotT s.r.l.
Budget: **150k€**;
Period: 26 April 2022–25 April 2023;
<https://thermalx.eu/>
- 2021 Lead of Task B *Design of the control architecture and of the actuators control loop* of the project INAF PRIN 2019 *SPLATT: Segments and Pyramids for Large Aperture space Telescopes Technology*. Principal Investigator: Runa Briguglio, Oss. Arcetri – INAF-OAA.
Period: 1 March 2021–1 March 2023.
- 2020 Leader of WP-SS 3 *Serra Veneta 4.0: Elettrificazione e Digitalizzazione* of the project *L'agricoltura del futuro e gli alimenti funzionali: una sfida per la ricerca e il rilancio del territorio veneto (F.A.&A.F.)* funded by POS FESR 2014-2020. Principal Investigator: Tullio Pozzan, University of Padova.
Period: 10 September 2020–30 December 2022.
- 2018 Coordinator of the EU funded H2020 *SARAS Smart Autonomous Robotic Assistant Surgeon*, Call: H2020-ICT-2016-2017, Topic: ICT-27-2017, Type of action: RIA. Total Budget: **4,2M€**; UNIVR Budget: **663k€**
Period: 01 January 2018–31 December 2021.
<https://saras-project.eu/>

Patents

- 2023 EU Patent, European patent application n. 20159675.6 filed on 27.02.2020 *THERMAL ENDOSCOPE FOR SURGICAL APPLICATIONS* Inventors: DAFFARA CLAUDIA, MURADORE RICCARDO, SIRACUSANO SALVATORE, MARCHIORO GIACOMO, FIORINI PAOLO, SCUTELNIC DUMITRU. Owners: DAFFARA CLAUDIA, MURADORE RICCARDO, SIRACUSANO SALVATORE
- 2019 Brevetto per invenzione industriale N. 102019000003347, *Endoscopio termico per applicazioni chirurgiche* Inventori: DAFFARA CLAUDIA, MURADORE RICCARDO, SIRACUSANO SALVATORE, MARCHIORO GIACOMO, FIORINI PAOLO, SCUTELNIC DUMITRU. Titolari: DAFFARA CLAUDIA, MURADORE RICCARDO, SIRACUSANO SALVATORE

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<https://www.scopus.com/authid/detail.uri?authorId=14827262300>

<https://scholar.google.it/citations?user=EwNYcxwAAAAJ&hl=en>

<https://orcid.org/0000-0002-0287-6896>

Publications (Journal papers)

- Nicola Piccinelli, Gianluca Colombo-Taccani, and Riccardo Muradore.
A passive convex optimal control algorithm for teleoperating a redundant robotic arm in minimally invasive surgery.
International Journal of Robust and Nonlinear Control, 2024
- Damiano Rigo, Nicola Sansonetto, and Riccardo Muradore.
Geometric optimal filtering for an articulated n-trailer vehicle with unknown parameters.
International Journal of Robust and Nonlinear Control, 34(18):11868–11886, 2024
- Elia Brentarolli, Silvia Locatelli, Carlo Nicoletto, Paolo Sambo, Davide Quaglia, and Riccardo Muradore.
A spatio-temporal methodology for greenhouse microclimatic mapping.
PloS one, 19(9):e0310454, 2024
- Nicola Piccinelli, Giacomo De Rossi, Claudia Daffara, and Riccardo Muradore.
A passive stereo calibration technique for visible-thermal, low-resolution imaging in remote sensing applications.
Measurement, 231:114647, 2024
- Federico Vesentini, Riccardo Muradore, and Paolo Fiorini.
A survey on velocity obstacle paradigm.
Robotics and Autonomous Systems, 174:104645, 2024
- Federico Vesentini, Damiano Rigo, Nicola Sansonetto, Luca Di Persio, and Riccardo Muradore.
Minimum-energy switching geometric filter on lie groups for differential-drive wheeled mobile robots.
European Journal of Control, 80:101101, 2024
- Narcís Sayols, Albert Hernansanz, Alessio Sozzi, Nicola Piccinelli, Fabio Falezza, Saverio Farsoni, Alicia Casals, Marcello Bonfè, and Riccardo Muradore.
Dynamic global/local multi-layer motion planner architecture for autonomous cognitive surgical robots.
Robotics and Autonomous Systems, 180:104758, 2024
- Federico Vesentini, Nicola Piccinelli, and Riccardo Muradore.
Velocity obstacle-based trajectory planner for anthropomorphic arms.
European Journal of Control, page 100901, 2024
- Francesco Visentin, Simone Cremasco, Marco Sozzi, Luca Signorini, Moira Signorini, Francesco Marinello, and Riccardo Muradore.
A mixed-autonomous robotic platform for intra-row and inter-row weed removal for precision agriculture.
Computers and Electronics in Agriculture, 214:108270, 2023
- Francesco Cordoni, Luca Di Persio, and Riccardo Muradore.
Weak energy shaping for stochastic controlled port-hamiltonian systems.
SIAM Journal on Control and Optimization, 61(5):2902–2926, 2023
- Francesco Visentin, Fabio Castellini, and Riccardo Muradore.
A soft, sensorized gripper for delicate harvesting of small fruits.
Computers and Electronics in Agriculture, 213:108202, 2023
- Damiano Rigo, Nicola Sansonetto, and Riccardo Muradore.
Second-order-optimal filtering on $se(2) \times \mathbb{R}^2$ for the chaplygin sleigh.
Systems & Control Letters, 178:105568, 2023
- Marco Minelli, Nicola Piccinelli, Fabio Falezza, Federica Ferraguti, Riccardo Muradore, and Cristian Secchi.
Two-layer-based multiarms bilateral teleoperation architecture.
IEEE Transactions on Control Systems Technology, 31(3):1266–1279, 2023
- Federico Vesentini, Luca Di Persio, and Riccardo Muradore.
A brownian–markov stochastic model for cart-like wheeled mobile robots.
European Journal of Control, 70:100771, 2023

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- Salvatore Siracusano, Giacomo Marchioro, Dumitru Scutelnic, Matteo Brunelli, Renato Talamini, Antonio Benito Porcaro, Paolo Fiorini, Riccardo Muradore, and Claudia Daffara.
Measuring thermal spread during bipolar cauterizing using an experimental pneumoperitoneum and thermal sensors.
Frontiers in Surgery, 10:1115570, 2023
- Francesco Cordoni, Luca Di Persio, and Riccardo Muradore.
Stochastic port-hamiltonian systems.
Journal of Nonlinear Science, 32(6):1–53, 2022
- Damiano Rigo, Chiara Segala, Nicola Sansonetto, and Riccardo Muradore.
Second-order-optimal filter on lie groups for planar rigid bodies.
IEEE Transactions on Automatic Control, 67(9):4971–4977, 2022
- Dumitru Scutelnic, Giacomo Marchioro, Salvatore Siracusano, Paolo Fiorini, Riccardo Muradore, and Claudia Daffara.
Thermal endoscope based on cost-effective lwir camera cores.
HardwareX, 11:e00300, 2022
- Fabio Falezza, Federico Vesentini, Alessandro Di Flumeri, Luca Leopardi, Gianni Fiori, Gianfrancesco Mistrorigo, and Riccardo Muradore.
A novel inverse dynamic model for 3-dof delta robots.
Mechatronics, 83:102752, 2022
- Francesco Cordoni, Gianluca Bacchiega, Giulio Bondani, Robert Radu, and Riccardo Muradore.
A multi-modal unsupervised fault detection system based on power signals and thermal imaging via deep autoencoder neural network.
Engineering Applications of Artificial Intelligence, 110:104729, 2022
- Francesco Giuseppe Cordoni, Luca Di Persio, and Riccardo Muradore.
Discrete stochastic port-hamiltonian systems.
Automatica, 137:110122, 2022
- Fabio Falezza, Nicola Piccinelli, Giacomo De Rossi, Andrea Roberti, Gernot Kronreif, Francesco Setti, Paolo Fiorini, and Riccardo Muradore.
Modelling of surgical procedures using statecharts for semi-autonomous robotic surgery.
IEEE Transactions on Medical Robotics and Bionics, 3(4):888–899, 2021
- Nicola Piccinelli and Riccardo Muradore.
A bilateral teleoperation with interaction force constraint in unknown environment using non linear model predictive control.
European Journal of Control, 62:185–191, 2021
- Francesco Cordoni, Luca Di Persio, and Riccardo Muradore.
Bilateral teleoperation of stochastic port-hamiltonian systems using energy tanks.
International Journal of Robust and Nonlinear Control, 31(18):9332–9357, 2021
- Giacomo De Rossi, Marco Minelli, Serena Roin, Fabio Falezza, Alessio Sozzi, Federica Ferraguti, Francesco Setti, Marcello Bonfè, Cristian Secchi, and Riccardo Muradore.
A first evaluation of a multi-modal learning system to control surgical assistant robots via action segmentation.
IEEE Transactions on Medical Robotics and Bionics, 3(3):714–724, 2021
- Viktor Bezborodov, Luca Di Persio, and Riccardo Muradore.
Minimal controllability time for systems with nonlinear drift under a compact convex state constraint.
Automatica, 125:109428, 2021
- Viktor Bezborodov, Luca Di Persio, and Riccardo Muradore.
Stabilization of planar non-markovian switched linear systems with unbounded random delays.
European Journal of Control, 57:109–118, 2021
- Francesco Cordoni, Luca Di Persio, and Riccardo Muradore.
Stabilization of bilateral teleoperators with asymmetric stochastic delay.
Systems & Control Letters, 147:104828, 2021

- Jacopo Mocci, Federico Busato, Nicola Bombieri, Stefano Bonora, and Riccardo Muradore.
Efficient implementation of the shack–hartmann centroid extraction for edge computing.
JOSA A, 37(10):1548–1556, 2020
- Jacopo Mocci, Martino Quintavalla, Alessandro Chiuso, Stefano Bonora, and Riccardo Muradore.
Pi-shaped lqg control design for adaptive optics systems.
Control Engineering Practice, 102:104528, 2020
- Claudia Daffara, Riccardo Muradore, Nicola Piccinelli, Nicola Gaburro, Tullio de Rubeis, and Dario Ambrosini.
A cost-effective system for aerial 3d thermography of buildings.
Journal of Imaging, 6(8):76, 2020
- Martino Quintavalla, Mattia Spagnol, Lyu Abe, Marcel Carbillet, Eric Aristidi, Jacopo Mocci, Riccardo Muradore, and Stefano Bonora.
XSAO: an extremely small adaptive optics module for small-aperture telescopes with multiactuator adaptive lens.
Journal of Astronomical Telescopes, Instruments, and Systems, 6(2):20, 2020
- Alice Leporini, Elettra Oleari, Carmela Landolfo, Alberto Sanna, Alessandro Larcher, Giorgio Gandaglia, Nicola Fossati, Fabio Muttin, Umberto Capitano, Francesco Montorsi, et al.
Technical and functional validation of a teleoperated multirobots platform for minimally invasive surgery.
IEEE Transactions on Medical Robotics and Bionics, 2(2):148–156, 2020
- Thomas Battisti and Riccardo Muradore.
A velocity obstacles approach for autonomous landing and teleoperated robots.
Autonomous Robots, 44(2):217–232, 2020
- S. Ayoob Moosavi, M. Quintavalla, J. Mocci, R. Muradore, H. Saghaififar, and S. Bonora.
Improvement of coupling efficiency in free-space optical communication with a multi-actuator adaptive lens.
Optics Letters, 44(3):606–609, 2019
- P. Zhang, J. Mocci, D.J. Wahl, R.K. Meleppat, S.K. Manna, M. Quintavalla, R. Muradore, M.V. Sarunic, S. Bonora, Jr. Pugh, E.N., and R.J. Zawadzki.
Effect of a contact lens on mouse retinal in vivo imaging: Effective focal length changes and monochromatic aberrations.
Experimental Eye Research, 172:86–93, 2018
- M. Negro, M. Quintavalla, J. Mocci, A.G. Ciriolo, M. Devetta, R. Muradore, S. Stagira, C. Vozzi, and S. Bonora.
Fast stabilization of a high-energy ultrafast opa with adaptive lenses.
Scientific Reports, 8(1), 2018
- J. Mocci, M. Quintavalla, C. Trestino, S. Bonora, and R. Muradore.
A multiplatform cpu-based architecture for cost-effective adaptive optics systems.
IEEE Transactions on Industrial Informatics, 14(10):4431–4439, 2018
- Alessandro Diodato, Margherita Brancadoro, Giacomo De Rossi, Haider Abidi, Diego Dall’Alba, Riccardo Muradore, Gastone Ciuti, Paolo Fiorini, Arianna Menciassi, and Matteo Cianchetti.
Soft robotic manipulator for improving dexterity in minimally invasive surgery.
Surgical innovation, page 1553350617745953, 2017
- Andrea Calanca, Riccardo Muradore, and Paolo Fiorini.
Impedance control of series elastic actuators: Passivity and acceleration-based control.
Mechatronics, 47:37 – 48, 2017
- Francesco Malapelle, Diego Dall’Alba, Denis Dalla Fontana, Ivano Dall’Alba, Paolo Fiorini, and Riccardo Muradore.
Cost effective quality assessment in industrial parts manufacturing via optical acquisition.
Procedia Manufacturing, 11:1207–1214, 2017

More information at

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<https://www.scopus.com/authid/detail.uri?authorId=14827262300>

<https://scholar.google.it/citations?user=EwNYcxwAAAAJ&hl=en>

<https://orcid.org/0000-0002-0287-6896>

- Kim Mathiassen, Diego Dall'Alba, Riccardo Muradore, Paolo Fiorini, and Ole Jakob Elle.
Robust real-time needle tracking in 2-d ultrasound images using statistical filtering.
IEEE Transactions on Control Systems Technology, 25(3):966–978, 2017
- Nicola Preda, Federica Ferraguti, Giacomo De Rossi, Cristian Secchi, Riccardo Muradore, Paolo Fiorini, and Marcello Bonfè.
A cognitive robot control architecture for autonomous execution of surgical tasks.
Journal of Medical Robotics Research, 1(04):1650008, 2016
- Davide Quaglia and Riccardo Muradore.
Communication-aware bandwidth-optimized predictive control of motor drives in electric vehicles.
IEEE Transactions on Industrial Electronics, 63(9):5602–5611, 2016
- Andrea Calanca, Riccardo Muradore, and Paolo Fiorini.
A Review of Algorithms for Compliant Control of Stiff and Fixed-Compliance Robots.
IEEE/ASME Transactions on Mechatronics, 21(2):613–624, 2016
- Riccardo Muradore and Paolo Fiorini.
A review of bilateral teleoperation algorithms.
Acta Polytechnica Hungarica, 13(1):191–208, 2016
- Michele Lora, Riccardo Muradore, Davide Quaglia, and Franco Fummi.
Simulation alternatives for the verification of networked cyber-physical systems.
Microprocessors and Microsystems, 39(8):843–853, 2015
- Davide Bresolin, Luca Geretti, Riccardo Muradore, Paolo Fiorini, and Tiziano Villa.
Formal verification of robotic surgery tasks by reachability analysis.
Microprocessors and Microsystems, 39(8):836–842, 2015
- Federica Ferraguti, Nicola Preda, Auralius Manurung, Marcello Bonfè, Olivier Lambercy, Roger Gassert, Riccardo Muradore, Paolo Fiorini, and Cristian Secchi.
An Energy Tank-Based Interactive Control Architecture for Autonomous and Teleoperated Robotic Surgery.
IEEE Transactions on Robotics, 31(5):1073–1088, 2015
- Riccardo Muradore and Davide Quaglia.
Energy-Efficient Intrusion Detection and Mitigation for Networked Control Systems Security.
IEEE Transactions on Industrial Informatics, 11(3):830–840, 2015
- Riccardo Muradore, Paolo Fiorini, Gokhan Akgun, Duygun Erol Barkana, Marcello Bonfè, Fabrizio Boriero, Andrea Caprara, Giacomo De Rossi, Riccardo Dodi, Ole Jakob Elle, et al.
Development of a cognitive robotic system for simple surgical tasks.
International Journal of Advanced Robotic Systems, 2015
- Riccardo Muradore, Lorenzo Pettazzi, Richard Clare, and Enrico Fedrigo.
An application of adaptive techniques to vibration rejection in adaptive optics systems.
Control Engineering Practice, 32:87–95, 2014
- Luisa Repele, Riccardo Muradore, Davide Quaglia, and Paolo Fiorini.
Improving performance of networked control systems by using adaptive buffering.
IEEE Transactions on Industrial Electronics, 61(9):4847–4856, 2014
- Riccardo Muradore and Paolo Fiorini.
A PLS-based statistical approach for fault detection and isolation of robotic manipulators.
IEEE Transactions on Industrial Electronics, 59(8):3167–3175, 2012
- Davide Quaglia, Riccardo Muradore, Roberto Bragantini, and Paolo Fiorini.
A SystemC/Matlab co-simulation tool for networked control systems.
Simulation Modelling Practice and Theory, 23:71–86, 2012
- Riccardo Muradore, Davide Bresolin, Luca Geretti, Paolo Fiorini, and Tiziano Villa.
Robotic surgery.
IEEE Robotics & Automation Magazine, 18(3):24–32, 2011
- Alessandro Chiuso, Riccardo Muradore, and Enrico Marchetti.
Dynamic calibration of adaptive optics systems: A system identification approach.
IEEE Transactions on Control Systems Technology, 18(3):705–713, 2010
- Enrico Fedrigo, Riccardo Muradore, and Davide Zilio.
High performance adaptive optics system with fine tip/tilt control.
Control Engineering Practice, 17(1):122–135, 2009

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<https://scholar.google.it/citations?user=EwNYcxwAAAAJ&hl=en>

<https://orcid.org/0000-0002-0287-6896>

- Riccardo Muradore, Fabrizio Bezzo, and Massimiliano Barolo.
Optimal sensor location for distributed-sensor systems using multivariate regression.
Computers & chemical engineering, 30(3):521–534, 2006
- F. Bezzo, F. Micheletti, R. Muradore, and M. Barolo.
Using mpc to control middle-vessel continuous distillation columns.
Journal of Process Control, 15(8):925–930, 2005
- Riccardo Muradore and Giorgio Picci.
Mixed H_2/H_∞ control: the discrete-time case.
Systems & control letters, 54(1):1–13, 2005

Autorizzo il trattamento dei dati personali contenuti nel curriculum vitae in base all'art. 13 del D. Lgs.196/2003 e all'art. 13 GDPR 679/2016

Il sottoscritto Riccardo Muradore, consapevole che le dichiarazioni false comportano l'applicazione delle sanzioni penali previste dall'art. 76 del D.P.R. 445/2000, dichiara che le informazioni riportate nel seguente curriculum vitae, redatto in formato europeo, corrispondono a verità.

Verona, January 2025

Riccardo Muradore