

## Curriculum Vitae

### Personal information

First name Surname	<b>Daniele Regazzoni</b>
Address	University of Bergamo; Department of Management, Information and Production Engineering, via Pasubio, 7/b, 24044 Dalmine (BG)
Office phone	+390352052353
E-mail	daniele.regazzoni@unibg.it

### Work experience

Position held	<b>Full Professor, IIND-03/B.</b> Design methods for industrial engineering (previously SSD ING-IND/15, Design methods for industrial engineering)
Main activities and responsibilities	<ul style="list-style-type: none"><li>- Member of the Board of the Degree Courses in Engineering Technologies for Health of the English master's degree program in Engineering Management for Health (2018-today).</li><li>- Member of the academic board of the PhD program in Technology, Innovation and Management (TIM), University of Bergamo held together with the Federico II University of Naples (2017-today)</li><li>- Member of the Department Board of the Engineering, Information and Production Engineering Department of the University of Bergamo (2016-2017)</li><li>- Coordinator the research activities of a type B researcher, 3 PhD students, research fellows and about 20 undergraduate and graduate students per year.</li></ul>
Name and address of employer	University of Bergamo
Type of business or sector	University – Research
Dates	From February 2017 to August 2021
Occupation or position held	<b>Associate Professor</b> , SSD ING-IND/15, Design methods for industrial engineering
Name and address of employer	University of Bergamo
Type of business or sector	University – Research
Dates	From February 2005 to January 2017
Occupation or position held	<b>Researcher - Assistant professor</b> , SSD ING-IND/15, Design methods for industrial engineering
Name and address of employer	University of Bergamo
Type of business or sector	University – Research
Dates	June 2004 - January 2005
Occupation or position held	<b>Scholarship</b> at the University of Bergamo
Type of business or sector	University – Research
Dates	June 2003 - May 2004
Occupation or position held	<b>Research Fellow</b> Politecnico di Milano, Department of Mechanical Engineering
Type of business or sector	University – Research

### Education and training

2003-2006	<b>PhD in Mechanical Engineering</b> – Management of Production Engineering at the University of Padua
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1995-2002

**Bachelor and Master Degrees in Mechanical Engineering** at the University of Bergamo

**Personal skills and competences**

Mother tongue(s)

**Italian**

Other language(s)

Self-assessment

*European level (\*)*

**English**

**French**

Understanding		Speaking		Writing			
Listening		Reading		Spoken interaction		Spoken production	
C1	C1	C1	C1	C1	C1	C1	C1
B1	B1	A2	A2	A2	A2	A2	A2

(\*) [\*Common European Framework of Reference for Languages\*](#)

**Member of steering and technical Committees**

- Senior Consultant of the Chamber of Commerce of Bergamo, Patents and Trademarks office (2009-today).
- Member of the Council of the Association DIH - Digital Innovation Hub Bergamo (DIH Lombardia, Antenna Bergamo) (2021, 3 years mandate).
- Technical Consultants for a Party, three times named by a Judge in the Court of Brescia as an engineering technical expert.
- Representative for the University of Bergamo of the Initiative: "Servizi sanitari e transizione ecologica: un'alleanza tra le istituzioni" held by the Omceo Bergamo, Asst Papa Giovanni XXIII, Asst Bergamo Est, Asst Bergamo Ovest, Ats Bergamo, Istituto di Ricerche Farmacologiche Mario Negri and Comune di Bergamo.

**Awards**

- Best paper award for the paper: Comotti Claudio, Regazzoni Daniele, Rizzi Caterina, Vitali Andrea (2016). Optimization Method for Additive Manufacturing: an Application in the Medical Field. In Proceedings of International Conference on Innovative Design and Manufacturing, ICIDM 2016, January 24-26, 2016, Auckland, New Zealand.

**Editorial activity and Commission of Trust**

Member of the Editorial and Scientific Board

- International Journal of the Digital Human (Inderscience).
- Sensors (MDPI).
- Journal of Human Factors Modelling and Simulation (IFHFMS)

Member of Reviewers Committee for scientific journals:

- International Journal of the Digital Human (IJDH)
- International Journal of Product Development (IJPd)
- ASME Journal of Computing and Information Science in Engineering (JCISE)
- International Journal of Engineering Business Management (IJEbM)
- Computer Aided Design and Applications (CADandA)
- Sensors

Member of Reviewers Committee for international conferences:

- ASME IDETC-CIE Conferences (2008-today).
- CAD Conferences (2013-today).
- ASME IMECE Conferences (2014-today)
- TMCE Conferences (2008-2016).
- TRIZ Future Conferences dal (2005-2013)
- ICIDM - International Conference on Innovative Design and Manufacturing (2014-2016)
- Digital Human Modeling (DHM) Symposium dal (2014-2020)
- 3D Body Scanning Technologies Conference and Exhibition (2015)

## Conference Organization and Invited presentations

### Organizing Committee

- 10 th ETRIA World TRIZ Future Conference (TFC) 2010, Bergamo, Italy, 3-5 November 2010.
- International CAD Conference and Exhibition 2013, Bergamo, Italy, 17-20 June 2013;
- 8th CIRP IPSS Conference, Product-Service Systems across Life Cycle, Bergamo 20-21/06/2016

### Topic and Track Organizer

- ASME – IMECE from 2018 as Topic Organizer and since 2025 as Track Organizer

### Thematic Workshop Organizer

- IEA2021, International Ergonomics Association, Vancouver, Canada 2021 (virtual);
- AHFE2020, Applied Human Factors and Ergonomics, San Diego, California 2020 (virtual).

### Invited Presentations

- INCOSE HSI Working Group Workshop organized by the HSI Israeli Working Group and supported by ESTIA Institute of Technology, France, 27-29 October 2020

## Research areas & Competitive Grants

The research activity is divided into various branches concerning in general the methodologies and technologies for product development in industrial and medical field. Methodologies and tools for 3D modelling and simulations of the human body are developed and applied to several fields, such as, virtual ergonomics, surgical planning, motor and neurological rehabilitation, development of patient-fit prostheses and orthoses, design for Additive Manufacturing of medical devices. 3D scanning and imaging, as well as inertial and optical (marker-based and markerless) motion capture are investigated and applied to clinical case studies together with private and public hospitals.

### Participation and coordination of research projects (most relevant)

- September 2025, HARMONY - Human-Assisted Robotic Manufacturing for Optimized New Yield - Bando “Collabora & Innova” – PR FESR 2021-2027 – asse 1 - azione 1.1.3. “Sostegno all’attuazione di progetti complessi di ricerca, sviluppo e innovazione”
- December 2022 (4 years) - Anthem (Advanced Technologies for Human-centered Medicine) Project, Spoke 2 - Connecting patients and therapists through adaptive environments and intelligent sensors to enhance proximity medicine
- 2021 – PREPACARE(XR) European Project, Erasmus + Key Action 2, Strategic Partnership, (2nd call, 2020); the aim of the project is to develop, test and publish simulation-based training courses for (future) health professionals on an e-learning platform.
- 2019, lasting 30 months, the WATCHMAN Project (Workload-reduction Machine vision-based Technology Hub for MANufacturing) funded by the Lombardy Region, is aimed at laying the foundations for the development of a hub of skills on Artificial Intelligence (AI) techniques applied to Machine Vision (MV) in the manufacturing sector.
- From January 2017 to November 2019, the INPROVES project, funded by the Lombardy Region; the project, led by Brembo, aims to develop product and process integration for the construction of electric motors for road vehicles aimed at developing brushless electric motors for both braking systems and for traction and energy recovery.
- 2017-2018 National project entitled Digital Techniques for the Rehabilitation Design and Construction of Dental Prostheses submitted through the University center HTH - Human Factors and Technology in Healthcare, to FONDIMPRESA (Notice 3-2015).
- 2014-2015 INDUSTRIA 2015 project, BODY-SCAN: Development of integrated solutions for virtual prototyping, ICT acquisition and modeling techniques for the of the human body and motion analysis.
- 2012-2013 he participates in the “I4BIO3 - Innovation for Bio-engineering” project (continuation of the I4BIO and I4BIO2 project), co-financed by the Cariplo Foundation concerning the design lower limb prostheses with the aim of integrating finite element analysis tools and Digital Human Modeling systems.

## International collaborations

He is actively collaborating with international research centers and universities, such as ORT Braude College, Karmiel, Israel - Prof. Miri Weiss Cohen, James Cook University, Australia - Prof. Gunther Paul and with the American Colorado State University - Pueblo, Prof. Nebojsa Jaksic. European relations have been defined with other universities, such as the Austrian University of Applied Science - Technikum Wien - Prof. Mathias Forjan, the Finnish LAPIN AMK, Lapland University of Applied Science - Prof. Tieranta Outi, the Portuguese University of Trás-os-Montes and Alto Douro - Prof. Luís José Calçada Torres Pereira. With the latter, a Strategic Partnership European Project, Prepacare(XR), was funded and it is now running. He hosted incoming professors (e.g. Prof. Miri Weiss Cohen, Braude College, Israel) and PhD students (e.g. Vasja Plesec, University of Maribor, Slovenia). He is also involved in Erasmus+ actions and he has been an outgoing visiting professor in Israel at the Braude College.

## Track Record

### Researcher unique identifier(s):

SCOPUS Author ID: 24469250100; ORCHID ID: 0000-0001-5533-7047

Total number of indexed publications: 113 of which 38 in peer-review journals

Total number of publications in peer-review journals: 38

Total number of citations: 721 (Scopus)

H index: 17 (Scopus)

## Publications selection

1. Aruanno, B., et al. (2025). Extended Reality in Industry and Healthcare: Current Trends and Future Perspectives. *Journal of Computing and Information Science in Engineering*, 25(12), 120806.
2. Cattaneo, A., Vitali, A., Regazzoni, D., & Rizzi, C. (2025). The burden of informal family caregiving in Europe, 2000–2050: a microsimulation modelling study. *The Lancet Regional Health–Europe*, 53.
3. Ghidotti, A., Regazzoni, D., Rizzi, C., & Condello, V. (2025). Predicting patient satisfaction after anterior cruciate ligament reconstruction based on morphology: a machine learning approach. *International Journal on Interactive Design and Manufacturing (IJIDeM)*, 1-12.
4. Savoldelli, A., Regazzoni, V., Rizzola, G., Giudici, V., Vitali, A., Regazzoni, D., ... & Viscardi, L. (2024). Telemedicine and Remote Management of Patients with Heart Failure: From Theory to Daily Practice. *Telemedicine and e-Health*, 30(10), 2620-2629.
5. Ghidotti, A., Vitali, A., Regazzoni, D., Cohen, M. W., & Rizzi, C. (2024). Comparative analysis of convolutional neural network architectures for automated knee segmentation in medical imaging: a performance evaluation. *Journal of Computing and Information Science in Engineering*, 24(5), 051005.
6. Duz, A., et al. (2025). From construction machines to remote construction robots: control, interfaces, and usability of the Cranebot. *Frontiers in Robotics and AI*, 11, 1504317.
7. WeissCohen, M., Vitali, A., & Regazzoni, D. (2023). Human Joint Profile Extraction using Deep Learning Approaches. *COMPUTER-AIDED DESIGN AND APPLICATIONS*, 20(4), 704-715.
8. Spreafico, C., Zefinetti, F. C., Landi, D., & Regazzoni, D. (2023). Applying TRIZ in design for additive manufacturing to solve design contradictions at multilevel. *Computer-Aided Design and Applications*, 20(4), 651-662.
9. Ghidotti, A., Cattaneo, A., Vitali, A., Regazzoni, D., & Rizzi, C. (2023). ACL Morsky: Semi-automatic Tool for Assessing the Risk of Developing an Anterior Cruciate Ligament Injury. *COMPUTER-AIDED DESIGN AND APPLICATIONS*, 20(4), 736-748.
10. Lanzoni, D., Vitali, A., Regazzoni, D., & Rizzi, C. (2022). Design of Customized Virtual Reality Serious Games for the Cognitive Rehabilitation of Retrograde Amnesia After Brain Stroke. *Journal of Computing and Information Science in Engineering*, 22(3).
11. Ghidotti, A., Vitali, A., Regazzoni, D., & Rizzi, C. (2022). An Investigation of Innovative 3D Modelling Procedures for Patient-specific Total Knee Arthroplasty. In *Computer-Aided Design and Applications*, 19(2), 2022, 306-319
12. Colombo Zefinetti, F., Rossoni, M., Martinelli, C., & Regazzoni, D. (2021, November). Design Innovation of Bicycle Frames Exploiting Topology Optimization. In *ASME International Mechanical Engineering Congress and Exposition* (Vol. 85604, p. V006T06A006).
13. Lanzoni, D., Vitali, A., Regazzoni, D., & Rizzi, C. (2021, August). A Method to Develop Virtual Reality Platforms for the Medical Rehabilitation of Severe Memory Loss After Brain Stroke. In *International Design Engineering Technical Conferences and Computers and Information in Engineering Conference* (Vol. 85376, p. V002T02A082).
14. Weiss Cohen, M., & Regazzoni, D. (2020). Hand rehabilitation assessment system using leap motion controller. *Ai & Society*, 35(3), 581-594.
15. Vitali, A., Maffioletti, F., Regazzoni, D., & Rizzi, C. (2020). Quantitative assessment of shoulder rehabilitation using digital motion acquisition and convolutional neural network. *Journal of Computing and Information Science in Engineering*, 20(5).
16. Regazzoni, D., Vitali, A., Rizzi, C., & Colombo, G. (2019). A virtual platform for lower limb prosthesis design and assessment. In *DHM and Posturography* (pp. 733-746). Academic Press.
17. Colombo, G., Rizzi, C., Regazzoni, D., & Vitali, A. (2018). 3D interactive environment for the design of medical devices. *International Journal on Interactive Design and Manufacturing (IJIDeM)*, 12(2), 699-715.
18. Regazzoni, D., Rizzi, C., & Vitali, A. (2018, August). Virtual reality applications: guidelines to design natural user interface. In *International Design Engineering Technical Conferences and Computers and Information in Engineering Conference* (Vol. 51739, p. V01BT02A029). American Society of Mechanical Engineers.
19. Comotti, C., Regazzoni, D., Rizzi, C., & Vitali, A. (2017). Additive manufacturing to advance functional design: an application in the medical field. *Journal of Computing and Information Science in Engineering*, 17(3).

20. Vitali, A., Regazzoni, D., Rizzi, C., & Colombo, G. (2017, November). Design and additive manufacturing of lower limb prosthetic socket. In *ASME International Mechanical Engineering Congress and Exposition* (Vol. 58462, p. V011T15A021). American Society of Mechanical Engineers

Prof. Daniele Regazzoni



Dalmine, 09/01/2026