

Francesco Burlando

Via Mario Preve 10/18, 16136, Genoa | +39 347 8822811 | francesco.burlando@unige.it

Scientific and Educational Curriculum Vitae

The undersigned, Francesco Burlando, Tax Code BRLFNC94A31D969Y, born in Genoa (GE) on January 31, 1994, male, declares under his own responsibility that the information contained herein is true, being aware that any false declarations, forgery, or use of forged documents are punishable under the Criminal Code and relevant special laws.

The information regarding scientific and educational activities, as well as the complete scientific production, is listed in chronological order, from the most recent to the oldest.

Table of Contents

1. Education and Training
2. Participation in National or International Scientific Conferences
3. Participation in Research Groups with National or International Collaborations
4. Scientific Studies and Research Responsibilities
5. Official Teaching Assignments in Italy
6. Official Teaching or Research Assignments at Foreign or Supranational Institutions
7. Other Teaching-Related Activities
8. Membership in Recognized Research Groups and Academies
9. Professional Experiences Characterized by Research Activities
10. Publications
 - 10.1 Monographs
 - 10.2 Journal Articles
 - 10.3 Doctoral Thesis
 - 10.4 Contributions in Volumes (Chapters or Essays)
 - 10.5 Contributions to Conference Proceedings
 - 10.6 Editorial Works

Brief Description of the Academic and Professional Path

Francesco Burlando was born in Genoa on January 31, 1994, and graduated from Scientific High School in 2013. He continued his studies with a Bachelor's degree in Product and Nautical Design, followed by a Master's degree in Product and Event Design at the University of Genoa. His Master's thesis, titled "Wearabot: Robotic System for Sarcopenia Prevention," was developed in collaboration with the School of Robotics Association and Galliera Hospitals in Genoa. This project introduced him to inclusive technology systems design and the study of interactions between these technologies and their target users.

In 2018, he began his PhD (34th cycle) at the same university, with a thesis titled "More than Humanoid: Practices and Tools for Designing Human* Robots," which explored the role of user-centered design and inclusive design in humanoid robotics. During his PhD, he participated in several research projects aligned with his studies, including the Ro.Sa project (Robot for Sarcopenia) and the Si-Robotics project (Social Robotics for Active and Healthy Aging).

He continued his research activities with a research grant in 2022/2023 titled "Post-Human-Centered Robotic Design: Research and Development of New Inclusive Design Approaches in

Assistive Robotics Technologies." During this period, his design approach expanded to include Post-Human and More-than-Human centered design topics.

In the following year, with a two-year research grant titled "Co-Design Activities and Research Models for Inclusivity in the RAISE Project," he began contributing to the RAISE project (Robotics and AI for Socio-economic Empowerment), where he integrated research on new Artificial Intelligence tools, particularly focusing on Generative AI models.

His scientific production primarily revolves around these design themes. The relationship between design and users is approached through inclusive design and attention to vulnerable user categories, as well as through the active engagement of users in the design process using various methods. Technology, another recurring theme, is addressed both as a tool to support designers in project phases and to facilitate user involvement. Additionally, his research involves designing technological products, such as humanoid robotics, by applying the explored methodologies. Finally, technology serves as a key lens through which he approaches Post/More-than-Human design topics.

His research is influenced by various scientific fields, including neuroscience, anthropology, biology, art history, astronomy, and philosophy.

In education, he has been a Contract Lecturer for three years at the University of Genoa, teaching the course "Thematic Design and Prototyping Laboratory" within the Bachelor's Program in Product and Nautical Design. Since 2023, he has also been a Visiting Professor at Beijing University of Chemical Technology (BUCT). His teaching integrates themes related to Inclusive Design and technology use in design projects, with recent attention to Generative AI in courses and workshops he has organized and conducted.

1. Education and Training

PhD in Architecture and Design (34th cycle)

Dates: November 2018 – July 2022 **Institution:** University of Genoa, Department of Architecture and Design **Thesis Title:** "More than Humanoid: Practices and Tools for Designing Human* Robots" **Disciplinary Sector:** ICAR/13

Master's Degree in Product and Event Design (LM-12)

Dates: September 2016 – October 2018 **Institution:** University of Genoa, Department of Architecture and Design **Thesis Title:** "Wearabot: Robotic System for Sarcopenia Prevention" **Grade:** 110L/110

Bachelor's Degree in Product and Nautical Design (L-4)

Dates: September 2013 – July 2016 **Institution:** University of Genoa, Department of Architecture and Design **Thesis Title:** Portfolio **Grade:** 107/110

High School Diploma – Scientific Studies

Dates: September 2008 – June 2013 **Institution:** Santa Maria Immacolata High School, Genoa **Grade:** 82/100

2. Participation in National or International Scientific Conferences

2024

- **June 6-8, 2024 EIDD – Design for All Europe General Assembly & Conference Location:** Vila Nova de Gaia, Portugal **Role:** Speaker at an international peer-reviewed conference **Contribution:** "Balance between Functionality and Aesthetics: An Inclusive Design Standpoint"
- **May 9-11, 2024 Mediterranean Design Association – 4th International Conference Location:** Ginosa (TA), Italy **Role:** Speaker at an international peer-reviewed conference **Contribution:** "RAISE Ecosystem: Urban Design for Accessible and Inclusive Smart Cities"

2023

- **November 22, 2023 – June 17, 2023 Cumulus Association Conference – Narrative of Love Location:** CAFA, Beijing **Role:** Speaker at an international peer-reviewed conference **Contribution:** "Should the Design Process Be Reimagined? The Interplay of Human Creativity and AI Innovation"
 - **June 11-13, 2023 SID Annual Assembly – Design for Diversity Location:** University of Chieti – Pescara, Italy **Role:** Speaker at a national peer-reviewed conference **Contribution:** "RAISE Project: Urban Technologies for Inclusive Engagement"
 - **May 4-5, 2023 FRID 2023 – National Forum of Doctoral Programs in Design Location:** IUAV University of Venice, Italy **Role:** Speaker at a national peer-reviewed conference **Contribution:** "Terminology in More-Than-Human Research"
-

3. Participation in Research Groups with National or International Collaborations

- **2023 – Present**
Research Unit Member
Project: RAISE - Robotics and AI for Socio-economic Empowerment
Description: Research and experimentation of new technological and relational models for creating inclusive urban communities through co-design methodologies and actions carried out in Living Labs. The aim is to understand user needs and identify best practices and inclusive solutions within the RAISE project. Specifically, the research focuses on developing inclusive technologies (smart indoor/outdoor interfaces) to support citizen autonomy and independence, including for vulnerable populations.
Funding: PNRR - Innovation Ecosystem ECS00000035 CUP D33C22000970006
Scientific Supervisor: Prof. Niccolò Casiddu
- **2022 – 2023**
Research Unit Member
Project: oMERO: An EU Curriculum for Visual Disabilities Rehabilitators
Program: Erasmus+ funded by the European Community (2020-2023)
Description: Member of the research group aimed at developing a specific curriculum for training childhood visual disability rehabilitators with an innovative multidisciplinary approach, including experiential student engagement and the adoption of advanced simulation training technologies. The contribution focused on activities within WP4 - Task 4.2 "Lesson Plan Development: Guides and Plans for Teachers Supporting the Localization of the Curriculum," aimed at developing a protocol for adapting home environments to the

needs of visually impaired or blind minors.

Scientific Supervisor: Prof. Niccolò Casiddu

- **2021 – Present**

Research Unit Member

Project: LivingHub – Center for Experimentation of New Technologies and Related Training Models for Simulation and Management of Home Care Environments

Description: Research activity aimed at setting up a prototype housing unit at SimAv (University's Advanced Simulation and Training Center) for simulation-based teaching activities with students. The focus is on designing assistive aids and devices for home environments using the Design for All approach.

Scientific Supervisor: Prof. Niccolò Casiddu

- **2019 – 2022**

Research Unit Member

Project: Ro.Sa. Robot for Sarcopenia in the Elderly

Description: Research activity aimed at investigating the prevention of frailty in the elderly through periodic physical activity supervised by a humanoid robot. The research focused on qualitative acceptance of the interaction mode with the humanoid robot by the elderly. To test research hypotheses, a clinical trial approved by the ethical committee of Galliera Hospitals in Genoa was conducted.

Scientific Supervisor, UniGe DAD: Prof. Niccolò Casiddu

Scientific Supervisor, E.O. Galliera: Dr. Prof. Alberto Pilotto

- **2019 – 2022**

Research Unit Member

Project: Si-Robotics: Social Robotics for Active and Healthy Ageing

Program: National Operational Program for Research and Innovation 2014-2020

Description: Member of the research group aimed at designing and developing innovative collaborative robotics solutions equipped with advanced skills to anticipate needs and provide assistance, monitoring, and coaching.

Funding Approval Decree: No. 3203 of 03/12/2019

Scientific Supervisor, UniGe DAD: Prof. Niccolò Casiddu

4. Scientific Studies and Research Responsibilities

- **02/05/2023 – Present**

Research Fellow (Two-Year Appointment)

Institution: University of Genoa, Department of Architecture and Design

Project Title: Co-Design Activities and Research Models for Inclusivity in the RAISE Project

Description: Research and experimentation of new technological and relational models for creating inclusive urban communities through co-design methodologies and actions carried out in Living Labs. The research aims to develop inclusive technologies (smart indoor/outdoor interfaces) to support citizen autonomy and independence, including for vulnerable populations.

Funding: PNRR - Innovation Ecosystem ECS00000035 "RAISE (Robotics and AI for Socio-economic Empowerment)" CUP D33C22000970006

Disciplinary Sector: ICAR/13

Decree: No. 1003 of 27/02/2023
Scientific Supervisor: Prof. Niccolò Casiddu

- **02/05/2022 – 01/05/2023**

Research Fellow

Institution: University of Genoa, Department of Architecture and Design

Project Title: Post-Human-Centered Robotic Design: Research and Development of New Inclusive Design Approaches in Assistive Robotics

Description: The research aimed to identify innovative design approaches from a post-human perspective within assistive robotics technologies, investigating the user's role in an inclusive design process. The research focused on outlining and studying these design methods and verifying their acceptability by users and their sustainability for society.

Disciplinary Sector: ICAR/13

Decree: No. 1769 of 22/04/2022

Scientific Supervisor: Prof. Niccolò Casiddu

5. Official Teaching Assignments in Italy

- **Academic Year 2024-2025**

Position: Contract Lecturer

Institution: University of Genoa, Department of Architecture and Design

Course: Thematic Design and Prototyping Laboratory, ICAR/13, Code 101847

Degree Program: Bachelor's Degree in Product and Nautical Design, Class L-4

Credits: 6 CFU (60 hours)

Position: Contract Lecturer

Institution: University of Genoa, Department of Architecture and Design

Course: Thematic Design and Prototyping Laboratory, ICAR/13, Code 101847

Degree Program: Bachelor's Degree in Product and Nautical Design, Class L-4

Credits: 6 CFU (60 hours)

Position: Contract Lecturer

Institution: University of Genoa, Department of Architecture and Design

Course: Thematic Design and Prototyping Laboratory, ICAR/13, Code 101847

Degree Program: Bachelor's Degree in Product and Nautical Design, Class L-4

Credits: 6 CFU (60 hours)

- **Academic Year 2023-2024**

Position: Contract Lecturer

Institution: University of Genoa, Department of Architecture and Design

Course: Thematic Design and Prototyping Laboratory, ICAR/13, Code 101847

Degree Program: Bachelor's Degree in Product and Nautical Design, Class L-4

Credits: 6 CFU (60 hours)

- **Academic Year 2022-2023**

Position: Contract Lecturer

Institution: University of Genoa, Department of Architecture and Design

Course: Thematic Design and Prototyping Laboratory, ICAR/13, Code 101847

Degree Program: Bachelor's Degree in Product and Nautical Design, Class L-4
Credits: 6 CFU (60 hours)

Guest Lecturer

Seminar: Omero Project

Institution: University of Genoa – SIMAV (Advanced Simulation and Training Center of UNIGE)

Description: Lecture on the simulation and experimentation of visual impairment within the Living Hub laboratory, involving healthcare professionals participating in the Erasmus+ Omero project.

Date: November 24, 2022

- **Academic Year 2021-2022**

Teaching Assistant and Subject Expert

Institution: University of Genoa, Department of Architecture and Design

Course: Thematic Design and Prototyping Laboratory, ICAR/13, Code 101847

Degree Program: Bachelor's Degree in Product and Nautical Design, Class L-4

Course Instructor: Prof. Niccolò Casiddu

Teaching Assistant and Subject Expert

Institution: University of Genoa, Department of Architecture and Design

Course: Materials and Components for Design, ICAR/13, Code 56097

Degree Program: Bachelor's Degree in Product and Nautical Design, Class L-4

Course Instructor: Prof. Claudia Porfirione

- **Academic Year 2020-2021**

Teaching Assistant and Subject Expert

Institution: University of Genoa, Department of Architecture and Design

Course: Thematic Design and Prototyping Laboratory, ICAR/13, Code 101847

Degree Program: Bachelor's Degree in Product and Nautical Design, Class L-4

Course Instructor: Prof. Niccolò Casiddu

Teaching Assistant and Subject Expert

Institution: University of Genoa, Department of Architecture and Design

Course: Materials and Components for Design, ICAR/13, Code 56097

Degree Program: Bachelor's Degree in Product and Nautical Design, Class L-4

Course Instructor: Prof. Claudia Porfirione

Guest Lecturer

Seminar: University of Pisa – Department of Energy, Systems, Territory, and Construction Engineering

Title: Social Robot: A Workshop on Future Human-Robot Interactions

Date: June 26, 2021

Guest Lecturer

Training Course for Top Managers (Second Edition)

Institution: AMAS (Academy for Healthcare Management)

Title: Humanization of Care Spaces

Course Duration: May 21 to May 28, 2021

Guest Lecturer

Training Course for Top Managers (First Edition)

Institution: AMAS (Academy for Healthcare Management)

Title: Humanization of Care Spaces

Date: September 11, 2020

- **Academic Year 2019-2020**

Teaching Assistant and Subject Expert

Institution: University of Genoa, Department of Architecture and Design

Course: Thematic Design and Prototyping Laboratory, ICAR/13, Code 101847

Degree Program: Bachelor's Degree in Product and Nautical Design, Class L-4

Course Instructor: Prof. Niccolò Casiddu

Teaching Assistant and Subject Expert

Institution: University of Genoa, Department of Architecture and Design

Course: Materials and Components for Design, ICAR/13, Code 56097

Degree Program: Bachelor's Degree in Product and Nautical Design, Class L-4

Course Instructor: Prof. Claudia Porfirione

Guest Lecturer

Advanced Training Course

Institution: Sant'Anna School of Advanced Studies, Pisa

Title: Intelligent Care: New Technologies and Personal Protection Models for the Development of Social Cooperatives

Course Duration: June 16 to June 25, 2020

- **Academic Year 2018-2019**

Teaching Assistant and Subject Expert

Institution: University of Genoa, Department of Architecture and Design

Course: Materials and Components for Design, ICAR/13, Code 56097

Degree Program: Bachelor's Degree in Product and Nautical Design, Class L-4

Course Instructor: Prof. Claudia Porfirione

6. Official Teaching or Research Assignments at Qualified Foreign or Supranational Institutions

23/10/2023 – 14/01/2024

Position: Visiting Professor

Institution: Beijing University of Chemical Technology (BUCT)

Program: Double Degree Program in Product and Nautical Design, Product and Communication Design Curriculum (BUCT and UniGe)

Courses: Subject Design Laboratory (38 hours), Design Laboratory (50 hours)

19/06/2023 – 19/07/2023

Position: Visiting Researcher (by Invitation)

Institution: Elisava, Barcelona School of Design and Engineering (UVic-UCC), Spain

Description: Identification and definition of scenarios for the development of the RAISE project and participation in Elisava's research activities on Artificial Intelligence applied to design and a More-than-Human centered approach to design.

Tutor: Prof. Massimo Menichinelli

27/12/2022 – 09/03/2023

Position: Assistant Professor

Institution: Beijing University of Chemical Technology (BUCT)

Program: Double Degree Program in Product and Nautical Design, Product and Communication Design Curriculum (BUCT and UniGe)

Courses: Subject Design Laboratory (150 hours)

Instructors: Prof. Niccolò Casiddu, Prof. Massimo Musio Sale

27/12/2021 – 16/03/2023

Position: Assistant Professor

Institution: Beijing University of Chemical Technology (BUCT)

Program: Double Degree Program in Product and Nautical Design, Product and Communication Design Curriculum (BUCT and UniGe)

Courses: Subject Design Laboratory (150 hours)

Instructors: Prof. Niccolò Casiddu, Prof. Massimo Musio Sale

28/12/2020 – 24/03/2023

Position: Assistant Professor

Institution: Beijing University of Chemical Technology (BUCT)

Program: Double Degree Program in Product and Nautical Design, Product and Communication Design Curriculum (BUCT and UniGe)

Courses: Subject Design Laboratory (150 hours)

Instructors: Prof. Niccolò Casiddu, Prof. Massimo Musio Sale

20/01/2019 – 03/02/2020

Position: Visiting Researcher (by Invitation)

Institution: Technological University Dublin, Ireland

Description: Participation in research activities at TU Dublin related to the Interreg Europe SHAFE project, aimed at developing tools and strategies for the adoption of Smart, Healthy, and Age-Friendly environments in the involved countries. Collaboration within a multidisciplinary team, supporting the development of user-friendly digital information tools for elderly users. **Tutor:** Prof. Damon Berry

7. Other Teaching-Related Activities

Co-Supervisor – National Doctoral Program in Design for Made in Italy: Identity, Innovation, Sustainability – CU1 Design for Inclusion, University of Campania “Luigi Vanvitelli”

Thesis Title: An Inclusive City Walking Experience for All, Case Study of Genoa

Student: Boyu Chen

Tutor: Prof. Niccolò Casiddu

Co-Supervisor: Francesco Burlando

Duration: December 2023 – Ongoing

Co-Supervisor – Master's Thesis in Product and Event Design, University of Genoa (LM12)

Thesis Title: Blending Reality and Virtuality: Designing Mixed Reality Environments for Motor-Cognitive Rehabilitation in Multiple Sclerosis

Student: Boyu Chen

Supervisor: Prof. Niccolò Casiddu

Co-Supervisors: Giacinto Barresi, Francesco Burlando, Isabella Nevoso

Session: July 2023

Supervisor/Co-Supervisor – Bachelor's Theses in Product and Communication Design, University of Genoa (L4)

Role: Supervisor or Co-Supervisor of 29 Bachelor's Theses since June 2020, including:

- **“Agave”** – A Lighting Solution for Any Urban Environment (Students: Federico Leopoldo Roi and Matteo Pugliese)
- **LightitHab** – Convenience as the Key to Habit (Students: Sara Gualtieri and Agnese Bianchi)
- **The New Limb of iCub** – Research and Design in Innovation Spaces (Student: Alessandro Nicolini)
- **Portfolio Website** (Student: Federica Bongiorno)
- **Totem** – Modular Air Purifier (Students: Matteo Macciò and Matteo Torre)
- **Baxaicò** – Indoor Garden (Student: Francesca Casalegno)
- **Personal Portfolio** (Student: Filippo Richelmi)
- **Personal Portfolio** (Student: Jacopo Bobbio)
- **Viaggio Lento – Lamp “DENG”** (Student: Tingle Chen)
- **Portfolio Project of Ocean Reef Mask Model Neptune** (Student: Luca Dellepiane)
- **Portfolio** (Student: Giulia Morini)
- **Aurelia Multi Bag** (Student: Emanuele Rizzo)
- **Design of Monomaterial Training Fin for Mares S.p.A.** (Student: Michele Alloro)
- **Development of Projects for Diving During Internship at Mares** (Student: Fabio Testa)
- **Fight Light – Smartphone Application** (Student: Luca Papini)
- **PLUS** (Student: Virginia Fasoli)
- **METOO – Modular Exercise Tools** (Student: Aurora Muda)
- **How to Loop** (Student: Matteo Ghinolfi)
- **Xpand – MTB Protections** (Student: Federico De Matteis)
- **Cube** (Student: Anna Bucciarelli)

- **From the In-Pong Vision to Patent** (Student: Filomena Vitulano)
- **Prototyping Loop** (Student: Aroldo Silvestri)
- **Kínisi** – Ergonomics as a Key to Inclusion (Student: Mariamatilde Martinelli)
- **Into the LOOP** – From Concept to Crowdfunding Campaign Launch (Student: Pietro Ambrosi)
- **Pack It** (Student: Laura Brotto)
- **Bee32** – Making Swimming Accessible for Everyone (Student: Daniele Fabiano)
- **Design of APP for Smart Sports Glasses** (Student: Wu Jiayi)
- **INPONG** – From Vision to Final Product (Student: Katia Caterina Fanello)
- **ScapâVia** – A Pilot Model for Outdoor Activities in Genoa's Historic Center (Student: Caterina Morini)

8. Membership in Recognized Research Groups and Prestigious Academies in the Field

2023 – Present

Membership in the Inter-University Research Group: Design for Health, Wellness, and Inclusion

Position: Regular Member

Description: The group serves as a research space focusing on Human-Centered Design and Inclusive Design to promote principles of person-centered design in environments, products, and services, both physical and digital. The aim is to ensure accessibility, usability, and meaningful interactions for individuals in situations of physical, cognitive, or social vulnerability, regardless of their abilities, background, or context of use. The goal is to contribute to a more inclusive world where design responds effectively and innovatively to health, wellness, and quality-of-life challenges.

2020 – Present

Membership in the Interdepartmental Center for Longevity and Active Aging, University of Genoa

Position: Regular Member

Description: The center, established among various departments of the University of Genoa (DIMI, DISSAL, DIMES, DINOEMI, DISC, DIFAR, DISTAV, DIEC, DISFOR, DIBRIS, DITEN, DISPO, DAD), focuses on the prevention and treatment of diseases related to aging, the protection of elderly individuals, and the application of engineering, IT, architectural, and robotic solutions to address the legal, social, and economic challenges faced by the elderly population.

2019 – Present

Membership in SID - Italian Society of Design

Position: Associate Member

Description: The Italian Society of Design aims to develop and disseminate design culture, advance studies in the field, and enhance their value in scientific, educational, academic, social, and civil contexts. It promotes sharing and dissemination of research outcomes and fosters debate among design scholars.

9. Specific Professional Experiences Characterized by Research Activities

04/09/2023 – 08/09/2023

Organizational Coordinator and Workshop Tutor

Institution: University of Genoa, Department of Architecture and Design

Workshop Title: From Meta-Project to Thesis Development

29/05/2023 – 01/06/2023

Organizational Coordinator and Workshop Tutor

Institution: University of Genoa, Department of Architecture and Design

Workshop Title: From Meta-Project to Thesis Development

24/05/2023 – 28/05/2023

Curator and Exhibition Setup

Event: Calvino Derubato Exhibition, Genoa Design Week 2023

Description: The exhibition explored the role of AI tools (text-to-text and text-to-image) and 3D printing in the design process, examining how they can be validated as valuable tools for designers rather than replacements.

14/04/2023 – 08/06/2023

Organizational Coordinator and Workshop Tutor

Institution: University of Genoa, Department of Architecture and Design

Workshop Title: Responsive Spaces: Adoption of Accessibility and Inclusion Technologies at Villaggio del Ragazzo, Corno

22/03/2023 – 12/04/2023

Organizational Coordinator and Workshop Tutor

Institution: University of Genoa, Department of Architecture and Design

Workshop Title: Workshock - Using AI and 3D Printing in Design

20/10/2021 – 21/10/2021

Organizational Coordinator and Workshop Tutor

Institution: University of Genoa, Department of Architecture and Design

Workshop Title: USB - Universal Serial Brief

18/11/2020 – 25/11/2020

Organizational Coordinator and Workshop Tutor

Institution: University of Genoa, Department of Architecture and Design

Workshop Title: DVD - Digital Vision for Dynamic Cities

10. Publications

10.1 Monographs

2024

- **Burlando, F., & Casiddu, N.** (2024). *Human: Human-Centered Robotic Design*. Altralinea Edizioni, Florence. ISBN: 979-12-80178-95-4
-

10.2 Journal Articles

2024

- **Burlando, F., Vacanti, A., Menichinelli, M., & Paz Ortiz, A.I.** (2024). *Challenges and Responsibilities in the UX Design of Text-to-Image AI Models: A Discussion Through Comparative Heuristics Evaluation*. In: *Temas de Disseny #40. The Role of the Designer in Society: Ethical, Theoretical, and Practical Perspectives*.

2023

- **Burlando, F., Vacanti, A., & Nevoso, I.** (2023). *The More-Than-Human Trend in Design: A Literature Review*. In: *DIID, Disrupting Geographies in the Design World*. ISSN: 1594-8528. [Class A Journal, Area 08/C1]

2022

- **Burlando, F., Casiddu, N., Porfirione, C., & Vacanti, A.** (2022). *Design for Underwater Experience: From Ligurian Tradition to Design Innovation*. In: *MD Journal*, Media MD, Ferrara. ISBN: 978-88-85885-12-7. [Class A Journal, Area 08/C1]
- **Burlando, F., Porfirione, C., & Zallio, M.** (2022). *From Open-Source 3D Printing to Industrial Manufacturing: A Life Cycle Assessment Study on Handy Multitool*. In: *DIID*, Bologna University Press, Bologna. ISSN: 1594-8528. [Class A Journal, Area 08/C1]

2021

- **Burlando, F., Casiddu, N., Porfirione, C., Vacanti, A., & Nevoso, I.** (2021). *Beyond Personas: Machine Learning for Personalized Design*. In: *AGATHÓN - International Journal of Architecture, Art and Design*, n. 12. ISSN: 2464-9309. [Class A Journal, Area 08/C1]
- **Burlando, F., Licaj, A., & Ferrari Tumay, X.** (2021). *Digital Visions of Dynamic Cities: The Experience of the DVD Workshop as a Case Study for Urban Representation*. In: *GUD, A Magazine About Architecture, Design, and Cities*, Special Edition 2021 Sguardi, Stefano Termanini Editore. ISSN: 1720-075X

2020

- **Burlando, F.** (2020). *Personalizing Spaces Through Experience Design*. In: *GUD, A Magazine About Architecture, Design, and Cities*, vol. 2 *Conclusus*, Stefano Termanini Editore. ISSN: 1720-075X

2019

- **Burlando, F., Porfirione, C., Casiddu, N., & Micheli, E.** (2019). *Humanoid Robotics Design for Active Ageing*. In: *DIID, Disegno Industriale Industrial Design*, vol. 67/19. ISSN: 1594-8528. [Class A Journal, Area 08/C1]
-

10.3 Doctoral Thesis

2022

- **Burlando F.**, *More than humanoid. Pratiche e strumenti per la progettazione di robot uman** XXXIV ciclo - Settore disciplinare ICAR/13

10.4 Contributions in Volumes (Chapters or Essays)

2024

- **Burlando F.**, *Anthroporobotocene. Non-human players for non-terrestrial habitats*, in Gambardella, G. (a cura di) *For Nature/With Nature: New Sustainable Design Scenarios*, Springer Nature, Cham.
ISBN: 9783031531217 / 9783031531224

2023

- **Burlando F., Vacanti A.**, *A (synthetic) life in technicolor*. In *De-Sign: Environment Landscape City 2021. Venice Biennale Resilient Communities. Conference proceedings*, Eriche, S., Pellegrini, G. (a cura di), pp. 91-97. Aracne Editrice, Roma.
ISSN: 979-12-218-0495-9

2020

- **Burlando F.**, *Literature review delle caratteristiche formali*, in: Porfirione, C., Silver Design. *Progettare ambienti e dispositivi capacitanti al tempo della silver economy*, p. 153-157, Genova University Press, Genova.
ISSN: 978-88-3618-017-2
- **Burlando F., Ferrari Tumay X.**, *Upside down city, guarda in su*, in: Bistagnino E., *Un'idea di Disegno, un'idea di Città. Le figure dello spazio urbano An idea of Drawing, an idea of City. The figures of the urban space*, p 142 – 145, Genova University Press, Genova.
ISBN: 978-88-3618-005-9

- **Burlando F., Ferrari Tumay X.,** *La città invisibile e Di volta in volta* , in: Bistagnino E., Un'idea di Disegno, un'idea di Città. Le figure dello spazio urbano An idea of Drawing, an idea of City. The figures of the urban space, p 166 – 173, Genova University Press, Genova. ISBN: 978-88-3618-005-9

10.5 Contributions to Conference Proceedings

2024

- **Burlando F., Porfirione C., Lorusso F. M.,** *RAISE ecosystem: urban design for accessible and inclusive Smart Cities*. In ENVIRONMENTAL DESIGN 4th International Conference on Environmental Design, Ginosa, Italy. ISBN: 978-88-5509-634-8
- **Burlando F., Ferrari Tumay X., Lorusso F. M.,** Should the design process be re-imagined? The interplay of human creativity and AI innovation, proceedings of Cumulus Association Conference - Narrative of love 2023, Beijing
- **Burlando F., Nevoso I.,** *La terminologia nella ricerca More-Than-Human*, in FRID Forum nazionale dei dottorati in design - 2023 Keywords: parole della ricerca in design.

2023

- **Burlando F., Porfirione C.,** SiRobotics. *Progettazione HCD di un robot umanoide assistenziale*, DesignIntorno. Conferenza annuale SID Società Italiana di Design, Alghero. ISBN: 9788894338072
- **Burlando F., Casiddu N., Porfirione C., Vacanti A., Nevoso I.,** *HCD methodologies and simulation for visual rehabilitator's education in oMERO project*. In Human Interaction and Emerging Technologies (IHET-AI 2023): Artificial Intelligence and Future Applications. ISBN: 978-1-958651-46-9
- **Burlando F., Casiddu N., Porfirione C., Vacanti A., Nevoso I.,** *Living Hub: Setting up a Living Lab for Simulation-Based Design Activities*. In Proceedings of Beyond All Limits 2022 - International Conference on Sustainability in Architecture, Planning and Design, Napoli. ISBN: 978-88-85556-23-2

2022

- **Burlando F., Nevoso I.**, (*Metodi HCD x Approcci More-than-human*) = *Design Inclusivo*³, pp. 252 - 265 in: atti di convegno DAI - Il Disegno per l'Accessibilità e l'Inclusione, Publica Editore, Alghero, Italy.
ISBN: 9788899586256
- **Burlando F., Casiddu N., Porfirione C., Vacanti A.**, *Si-Robotics: an assistive experimental robot*, pp. 1-7 In: T. Ahram, W. Karwowski, P. Di Bucchianico, R. Taiar, L. Casarotto and P. Costa, AHFE International Proceedings of the 5th International Conference on Intelligent Human Systems Integration (IHSI 2022): Integrating People and Intelligent Systems, Venice, Italy.
ISBN: 9781792389887
- **Burlando F., Vacanti A., Casiddu N., Porfirione C.**, *Co-design social robotic system in SiRobotics project*. In: A. Monteriù et al. (Eds) *Ambient Assisted Living. Italian Forum 2020*, Università degli Studi di Padova, Padova 1 dicembre 2020, Springer International Publishing.
ISBN: 978-3-031-08837-7
- **Burlando F., Porfirione C., X., T. Ferrari, Abbate L., Vacanti A., Gabbatore S.**, *Spazi Comuni. Scenari universitari per il ritorno alla a-normalità*. Design per connettere. Atti dell'Assemblea annuale della Società Italiana di Design, 25 febbraio 2021, SID Società Italiana di Design.
ISBN: 978-88-943380-0-3

2021

- **Burlando F., Vacanti A., Ferrari Tumay X.**, Robot design needs users: a co-design approach to HRI, pp. 135-142 In: Zallio M., Ibañez C. R. , Hernandez J. H., *Advances in Human Factors in Robots, Unmanned Systems and Cybersecurity*, 12th International Conference on Applied Human Factors and Ergonomics (AHFE 2021), Springer International Publishing, Cham.
ISBN: 978-3-030-79996-0A
- **Burlando F., Casiddu N., Porfirione C., Vacanti A.**, *Humanoid robotics: Guidelines for usability testing*. In: Karwowski W. Et al. (Eds), *Human Systems Engineering and Design III. Proceedings of the 3rd International Conference on Human Systems Engineering and Design (IHSED2020): Future Trends and Applications*, September 22–24, 2020, Juraj Dobrila University of Pula, Croatia, p. 102–109, Springer International Publishing.
ISBN: 978-3-030-58282-1
- **Burlando F., Casiddu N., Porfirione C., Vacanti A.**, *Designing Synthetic Emotions of a Robotic System*. In: Karwowski W., Et al. (Eds), *Human Systems Engineering and Design III. Proceedings of the 3rd International Conference on Human Systems Engineering and*

Design (IHSED2020): Future Trends and Applications, September 22–24, 2020, Juraj Dobrila University of Pula, Croatia, p. 148–155, Springer International Publishing.
ISBN: 978-3-030-58282-1

- **Burlando F., Porfirione C.,** *Humanoid Robotics for patients with sarcopenia: A preliminary study on interaction features.* In: A. Monteriù et al. (Eds) *Ambient Assisted Living. Italian Forum 2019*, Università Politecnica delle Marche, Ancona 19-21 giugno 2019, p. 169-176, Springer International Publishing.
ISBN: 978-3-030-63106-2
- **Burlando F., Porfirione C., Casiddu N., Vacanti A.,** *A Century of Humanoid Robotics in Cinema: A Design-Driven Review.*, pp- 103-109 In: Zallio M., Ibañez C. R. , Hernandez J. H., *Advances in Human Factors in Robots, Unmanned Systems and Cybersecurity*, 12th International Conference on Applied Human Factors and Ergonomics (AHFE 2021), Springer International Publishing, Cham.
ISBN: 978-3-030-79996-0
- **Burlando F., Ferrari Tumay X., Vacanti A.,** *A participated parametric design experience on humanoid robotics*, pp. 3-18, In: Di Lucchio L., Imbesi L., Gambattista A., Malakuczi V. (ed.), *Design Culture(s). Cumulus Conference Proceedings Roma 2021, Volume #2.* Roma, Italy.
ISBN: 978-952-64-9004-5

2020

- **Burlando, F.,** *Terraforming Mars vs Earth's Anthropocene*, pp. 111-122 In: Pellegri, G., Di-Segnare *Ambiente Paesaggio Città*, Genova, Italy. Genova University Press.
ISBN: 978-88-3618-042-4
- **Burlando F., Casiddu N., Vacanti A., Porfirione C.,** *Humanoid Robotics: A UCD review*, In: M. Zallio (Ed) *Advances in Human Factors in Robots, Drones and Unmanned Systems, Proceedings of the AHFE 2020 Virtual Conference on Human Factors in Robots, Drones and Unmanned Systems*, July 16-20, 2020, San Diego USA, p. 87-93, Springer International Publishing.
ISBN: 978-3-030-51757-1
- **Burlando F., Casiddu N., Porfirione C., Vacanti A.,** *Visual elements for the design of a Robotic Head in Si-Robotics project*, In: T. Ahram , C. Falcão (Eds) *Advances in Usability, User Experience, Wearable and Assistive Technology, Proceedings of the AHFE 2020 Virtual Conferences on Usability and User Experience, Human Factors and Assistive Technology, Human Factors and Wearable Technologies, and Virtual Environments and Game Design*, July 16-20, 2020, San Diego USA, p. 231-237, Springer International Publishing.

ISBN: 978-3-030-51827-1

- **Burlando F., Abbate L., Porfirione C., Casiddu N., Gabbatore S.,** *Here. Human Engagement in Robotics Experience*. In: Bucchianico G., Et al. (Eds), 100 anni dal Bauhaus. Le prospettive della ricerca in Design. Atti dell'Assemblea annual della Società italiana di Design, Scuola di Architettura e Design dell'Università di Camerino, Ascoli Piceno 13-14 giugno 2019, p. 470-475, SID Società Italiana di Design.
ISBN: 9788-89-43380-2-7
- **Burlando F., Bogliolo M., Marchesi G., Germinario A., Micheli E., Canessa A., Vallone F., Pilotto A., Casadio M.,** *A robot instructor for the prevention and treatment of Sarcopenia in the aging population: A pilot study*, pp. 1075-1080 In: 29th IEEE International Conference on Robot and Human Interactive Communication, ROMAN 2020, Institute of Electrical and Electronics Engineers Inc.
ISBN: 978-1-7281-6075-7

2016

- **Burlando, F.,** *Pro-gettare scenari per il design. Considerazioni sull'influenza delle neuroscienze e dell'antropologia nella progettazione*, pp.157-168 In: Pellegrini, G., Di-Segnare Ambiente Paesaggio Città, Genova, Italy. GS Digital S.a.S. Editore.
ISBN: 978-88-905324-3-6

10.6 Editorial Works

2019

- **Burlando, F., Mandraccio, L., Vacanti, A.** (A cura di) (2019). *Quinta Colonna vol.1 – Apollo 11*. ISSN: 2704-9922. Disponibile su www.quintacolonna.eu

Genoa, 03/01/2025