

CARLO VEZZOLI

CURRICULUM OF SCIENTIFIC AND DIDACTIC ACTIVITIES

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SUMMARY OF RESEARCH AND DIDACTIC ACTIVITIES

Carlo Vezzoli is Full Professor of Design at the Politecnico di Milano University and since 1995 has been working in this institution with research and educational activities focused on design for sustainability. Currently he holds the course of product *Design for environmental sustainability* and the course of *System Design for Sustainability* within the School of Design; he is the head of the research group *Design and system Innovation for Sustainability (DIS)* and the coordinator of the research lab *LeNS_lab Polimi*.

Today he is internationally regarded as one of the major experts in design for sustainability. In fact, he is the funder and **coordinator** of the **Learning Network on Sustainability (LeNS** www.lens-international.org), an international network of Higher Education Institutions aimed at the development and the diffusion of the *design for sustainability* discipline in worldwide curricula with a multipolar, open and *copyleft* ethos. Today the network counts 153 universities/institutions from 27 countries organised in the following 17 regional networks: *LeNS_Africa*, *LeNS_Brasil*, *LeNS_Colombia*, *LeNS_Argentina*, *LeNS_Mexico*, *LeNS_Perù*, *LeNS_Oceania*, *LeNS_China*, *LeNS_India*, *LeNS_Iran*, *LeNS_Vietnam*, *LeNS_Turky*, *LeNS_EU german countries*, *LeNS_Italy*, *LeNS France*, *LeNS Portugal*; *LeNS_USA* and *LeNS_Europe*. The establishment of such network has been supported by three consecutive EU funded multiregional projects promoted and coordinated by himself: (2007-2008) *LeNS - The Learning Network on Sustainability* (EU AsiaLink program) with 7 universities as partners from Europe and Asia; (2013-2016) *LeNSes - The Learning Network on Sustainable energy systems* (EU EduLink II program) with 7 universities as partners from Europe and Africa; and (2015-2018) *LeNSin - The international Learning Network of networks on Sustainability* (EU Erasmus+ programme) with 36 universities as partners and associate partners from Mexico, Brasil, South Africa, India, China, and, in Europe, United Kingdom (Brunell University), The Netherlands (TUDelft), Finland (Aalto University) and Italy (Politecnico di Milano). Of note, he promoted the Memorandum of Understanding (MOU) "LeNS Europe Alliance of Design for Sustainability Centres (DFS) in Top Higher Education Institutions (HEIs)" "able to lead a renewed and reinforced agenda on DFS on a European scale, while being connected with the worldwide network" signed by the Brunell University, the TUDelft, the Aalto University and the Politecnico di Milano, promoting synergies in research and didactic activities among those institutions.

In these last two decades of research and teaching on the role of design for sustainability, his areas of interest extended, moving from competences in the selection of low environmental impact materials and energy resources, to the design of environmentally sustainable products, the design of Eco-Efficient Product-Service System, the design for social equity and cohesion, and more recently to System Design for Sustainability for All (including low and middle-income people/contexts). This last item also focuses on the access to sustainable energy for all within a Distributed Economy (DE) framework.

Overarching his increasingly articulated framework of research and contribution to the design knowledge-base and know-how, three elements strategically drive his research and didactic activities:

- the search and consolidation of an **international scientific community** of reference;
- a fruitful and effective **integration** between the **research** activities and the **didactic** offers; and
- the search of modalities and a continuous activity of **applied researches** and **design consultancies** for companies and other socioeconomic actors.

He increases his international good standing with continuous participation in **international research projects (16)** with **public funding** (*European Union* and *United Nation Environmental Programme*), having a **coordinating role** on **12** of them. In these researches, he explored the theoretical and operative role of design for sustainability of products, services and systems. The most salient experiences are, chronologically: 1998-2000: national coordination of EU funded research (Environment and Climate Program) *Strategies towards the Sustainable Household*; 2001-2004: coordination of the design research area for EU funded research (5° Framework Program) *MEPSS. Product Service Systems Methodology - Development of a toolkit for industry*; 2005-2008: coordination of the design area for EU funded research (6° Framework Program) *SCORE! Sustainable Consumption Research Exchanges*; 2007-2010: coordination of the EU funded research (AsiaLink program) *LeNS. The Learning Network on Sustainability. Network for*

curricula development on Design for Sustainability focused on Product-Service System; 2011-2013: national coordination of the EU funded research (Culture program) TANGO-Towards A new iNtergenerational Openess; 2012-2014: national coordination of the EU funded research (Life+ program) Sustainability maker; 2013-2016: coordination of the EU funded research (EduLink program) LeNSes. The Learning Network on Sustainable energy systems. Multi-polar and open network for curricula and lifelong learning capacity development focused on locally-based Sustainable Energy System Design; and 2016-2019 coordination of the EU funded research (Erasmus+ program) LeNSin. The international Learning Network of networks on Sustainability. A Multi-polar and open network for curricula and capacity development on design for sustainability focused on Sustainable Product-Service Systems (S.PSS) applied to Distributed Economies (DE).

He **coordinated 5 nationwide (Italian) research projects with public funding** (and **participated** in another **7** for a total of **12 projects**), funded both by the Italian Ministry of University and Research (MIUR), and by the Italian Environmental Protection Agency (formerly ANPA now ISPRA). Some of these projects aimed at influencing the qualification of the curricular offerings on design for sustainability at Italian universities, leading to the establishment in year 2000 of the first Italian network of Higher Education Institutions (*RAPi.rete* now renamed *LeNS_Italy*), together with the design and development of a *Package of 3 software support tools for teachers and students on Life Cycle Design (LCD)*.

Since 1999 he has been continuously engaged in **applied research** and **design consultancy for companies** and other organisations and institutions. Since then he **coordinated 18 national and international privately funded projects** (for a total of **20 projects** he participated in directly).

Some of those consultancies were focused on **product design with low environmental impact** and on **Product-Service System design for sustainability**, such as the design consultancy for an eco-efficient lighting system for Artemide, the design of an eco-efficient draft drink dispenser for General Beverage (food and beverage), the scenario and concept design of Eco-Efficient Product-Service Systems for ASM Brescia (city waste manager), for Kone (elevators and escalators) and for Tetra Pack (beverage packaging). Other applied researches projects include the development of **specific knowledge** and **support tools** for the **design of low environmental impact** products for specific companies or professional associations, including: NECTA vending (vending machine), Dandy Line (electric beds), Illy (coffee and coffee machine), GIFCO (professional association of corrugated cardboard producers), Federlegno (professional association of furniture producers), Area Tortona lab (exhibitions/events promoter), Caremi (furniture), Soliani (furniture), Fumagalli (building components) and Bonaveri (mannequins).

An experimental design research approach characterises some projects on sustainable mobility, for example: the *Sunride (MULO) project*, leading to the prototyping of a hybrid solar/electric/human powered four wheels light vehicle that participated to the *non-competitive crossing Roma-Maranello* for zero emission vehicles; the *Vehicle Design Summit (VDS) project* coordinated by Massachusetts Institute of Technology (MIT) of Cambridge USA, dedicated to the development and prototyping of a low-impact vehicle and its system; the *System design for sustainable mobility pilot project for low income contexts in Africa*, promoted by United Nations Industrial Development Organization (UNIDO) with some African universities, resulting in the design of vehicles and their services system for the transportation of *drinkable water in Burkina Faso, of vegetables and fruits in Zambia, and of disabled people in South Africa*. For this last project, a hybrid solar vehicle, is prototyped in location by a partnership between Politecnico di Milano, a local university, a private company and a couple of NGOs.

He promoted other activities for the diffusion of design for sustainability including **9 exhibitions** and the promotion and coordination of **10 national and international awards/design competition** on sustainable innovations.

Since 1996, he has been continually appointed at **Politecnico di Milano, delivering** a total of **61 courses** and **27 didactic modules/lectures**, and has provided other **20 didactic modules/lectures** in **Italy** (outside Politecnico di Milano)

Regarding his lecturing activity, since 1997 he has delivered worldwide (outside Italy) **53 courses and didactic modules/lectures** in foreign universities in **Africa** (Botswana, Kenya, South Africa and Uganda), **Asia** (China [Beijing, Changsha, Hong Kong, Wuhan and Wuxi], India [Bangalore, Guwahati and New Delhi], Japan and Thailand); The **Americas** (Brazil [Belo Horizonte, Brasilia, Curitiba, Rio de Janeiro, Salvador de Bahia, Recife and Sao Paulo] and Mexico), and **Europe** (Estonia, Finland [Helsinki and Lahti], France, Norway, The Netherlands and United Kingdom [Cranfield and London]).

He has presented at **79 international congresses/seminars**, **23** as **keynote/invited speeches** and **5** as the **coordinator** of the event, in **Europe** (Austria [Bregenz, Salzburg], Belgium, Denmark, Estonia, Finland, France (Fontainebleau, Lion and Paris), Germany [Berlin, Braunschweig, Cologne, Freiburg and Luneburg], Italy [Bergamo, Milan, Rome and Turin], Ireland, Norway, Portugal [Lisbon, Bereira and Guimaraes], Spain [Barcelona and Valencia], Sweden [Kopparberg, Lund], Switzerland, The Netherlands [Amsterdam and Delft], Turkey and United Kingdom, The **Americas** (Argentina, Brazil [Belo Horizonte, Curitiba, Londrina, Joasaba, Recife and Sao Paulo], Colombia, Mexico [Mexico City and Monterrey] and United States [Chapel Hill and New Haven]), **Africa** (South Africa, Uganda), and **Asia** India [Ahmedabad, Bangalore and New Delhi] and China [Beijing, Nanjing and Wuxi]).

He took part in **21 national** (Italian) **congresses/seminars**, of which **9** he was the primary **coordinator/promoter**.

He published in **foreign languages (non-Italian): 13 books** as author (**8** of which are translations of work originally published in Italian or English), **21 contributions to books**, **27 international journals articles**, **56 proceedings of international conferences**, **3 books edited** by him, **2** times **guest editor** of international journal special volumes (Journal of Cleaner Production, impact factor 4,959), and **3 proceedings of international conferences edited** by him.

He published in **Italian: 4 books** as author, **12 contributions to books**, **8 journal articles**, **7 proceedings** (in Italian), **1 book edited** by him, **1 proceeding of national** (Italian) **conferences edited** by him.

He has designed and edited **8 digital products/platform** that support teachers, students and designers. A sample of important publications include: the Portuguese translation of the book *The Development of Sustainable Products* (Maggioli, 1998) for EDUSP (Brazil, 2002); the book *Product-Service Systems and Sustainability. Opportunities for sustainable solutions* for the United Nations Environment Programme (2002); the translation of the book *Design per la sostenibilità ambientale* (Zanichelli, 2007, II edition 2017) in English (*Design for Environmental Sustainability* UK: Springer, 2008, II edition 2018) in Chinese, and Spanish; the translation of the English book *System Design for Sustainability* (Maggioli, 2010) in Portuguese (Salvador: UDFBA, 2010); the chapter *Product-Service Systems* in *Design for Sustainability: A Global Guide* (United Nation Environmental Programme, 2009); the English language book *Product-Service System Design for Sustainability* (Greenleaf/Routledge, 2014) translated in Chinese (Greenleaf/Routledge, 2017) and in Portuguese (Insight, 2018); and he has been appointed 2 times as guest editor for special volumes of the Journal of Cleaner Production (USA: Elsevier, impact factor 5,715).

In **google scholar** he has **5.669 citations** (20.02.2020), an **h-index** of **24** and a **i10-index** of **41**; in **WoS** he has **753 citations** and **h-index** of **10** (20.02.2020); in **Scopus** he has **1.161 citations** and **h-index** of **12** (20.02.2020).

The following list of activities are grouped as follow and in chronological order:

- Research activities;
- Didactic activities;
- Presentations and speeches at conferences/seminars;
- Other activities; and
- Publications.

LIST OF RESEARCH ACTIVITIES

The research activities are organized in chronological order underlining his coordination role and grouped as follow:

- **international research activities with public funding (12 with a coordination role for a total of 16 he participated in directly);**
- **national (Italian) research activities with public funding (5 with a coordination role for a total of 12 he participated in directly); and**
- **research activities with private funding (19 with a coordination role for a total of 20 he participated in directly).**

International research activities with public funding (12 with a coordination role for 16 he participated in directly):

1. 12.2015-6.2019: promoter and coordinator of the international research *LeNSin - The Learning Network of Network on Sustainability. Multipolar and open network of networks for curricula development on Design for Sustainability, focused on Sustainable Product-Service Systems (S.PSS) applied to Distributed Economies (DE)*, funded by the European Union Erasums+ program (multiregional with 36 universities as partners and associate partners from Mexico, Brasil, South Africa, India, China and in Europe UK, Finland, The Netherlands and Italy).
2. 10.2013-10.2016: promoter and coordinator for the international research *LeNSes - The Learning Network for Sustainable energy systems. Multi-polar and open network for curricula and lifelong learning capacity development on System Design for Sustainable Energy for All (SD4SEA) focused on Sustainable Product-Service System applied to Distributed Renewable Energies (DRE)*, funded by the European Union Edulink program (biregional with Africa).
3. 9.2012-5.2015: national coordinator for the international research *Sustainability maker*, funded by the European Union Life+ program.
4. 2011-2013: national coordinator for the international research *TANGO, Towards A New interGenerational Openess*, funded by the European Union Culture program.
5. 12.2007-12.2010: promoter and coordinator of the international research *LeNS - The Learning Network on Sustainability. Network for curricula development on Design for Sustainability focused on Product-Service System*, funded by the European Union Asia Links program, EuropAid, bioregional with Asia.
6. 11.2005-11.2008: coordinator of the design area for the international research *SCORE! Sustainable Consumption Research Exchanges*, coordinated by TNO Built Environment and Geosciences, funded by the European Union, 6° Framework program.
7. 12.2007-7.2008: coordinator of the design area for the research focused on the development of *System design for sustainable pilot project aiming at a introduction of locally-based and long lasting mobility system for low income contexts in Africa*, within the international research *Global UNIDO Network of University Chairs on Innovation*, involving some African and some European universities (among which the Politecnico di Mialno).

8. 11.2001- 11.2004: coordinator of the design area for the international research *MEPSS. Product Service Systems Methodology - Development of a toolkit for industry*, coordinated by PricewaterhouseCoopers (PwC), funded by the European Union, 5° Framework program.
9. 2004: contribution to the international research *HiCS - Highly Customerized Solutions*, coordinated by the INDACO department of Politecnico di Milano, funded by the European Union, 5° Framework program.
10. 1.2004-7.2004: national coordinator for the international research *Preparation of the UNEP ecodesign guidance package: modules on Product Service Systems (PSS) and a module on internal communications*, funded by the United Nation Environment Program (UNEP).
11. 9.2001-2.2002: coordinator of the international research *Product-Service Systems and Sustainability. Orienting an ongoing trend towards sustainable solutions*, funded by the United Nation Environment Programme (UNEP).
12. 2000 (year): contribution to the international research *Creating Eco-efficient producer services*, funded by the European Union.
13. 1.1998-6.2000: national and clothing care area coordinator for the international research *Strategies towards the Sustainable Household*, funded by the European Union, Environment and Climate program.
14. 1998 (year): contribution to the international research *Competitiveness and Sustainability: Synergies and opportunities. System innovation and new business Idea*, for the preparation of the 5° Framework program, coordinated by the CIR.IS research Centre of the DITec department of the Politecnico di Milano, funded by the European Union.
15. 1995-1996: contribution to the international research *EXPRES: Extended Producer Responsibility for Complex Product. Research Analysis of the Socio-Economic and Technical Implication of Devising and Implementing a Policy on this Principle*, funded by the European Union.
16. 2006: coordinator of the project *Adaptation to the Brazilian context and Portuguese language of the Eco.cathedra software support tool to archive and lecture presentation on design for environmental sustainability*, funded by FUNPAR, Brasil.

National (Italian) research activities with public funding (5 with a coordination role for a total of 12 he participated in directly):

1. 6.2017-12.2019: contribution to the project *L'Economia Circolare per la competitività delle filiere del Made in Italy - GIOTTO*, coordinated by *Pointex* and funded by the Italian Ministry of University and Research (MIUR).
2. 10.2019-12.2019: contribution to the project FERA LIBENS. L'eco design per la calzatura, coordinated by *Pointex* and funded by Lombardy Region, program Innovazione delle filiere di economia circolare della Regione Lombardia.
3. 1.2012-7.2012: contribution as responsible for the area *System design for environmental sustainability* for the research *Greenmove*, coordinated by the Politecnico di Milano, funded by Lombardy Region.

4. 12.2008-7.2009: contribution as responsible for the area *design for environmental sustainability* for the research *BABYLANDIA*, coordinated by the Politecnico di Milano, involving 5 Italian companies (Fumagalli, Parà, Caremi, Soliani emc and Luxsolar), the Centro tessile cotoniero e per l'abbigliamento (Centre for cotton textile industry and clothing), Happy Child, funded by Lombardy Region.
5. 11.2005-11.2007: co-coordinator of the strategic design area for the national (italian) research, *Sole, vento, acqua, vegetazione e tecnologia avanzata quali matrici di un nuovo approccio progettuale al territorio, architettura e disegno industriale (Sun, wind, water, vegetation and advanced technologies as bases for a new design approach to territory, architecture, and design)*, coordinated by the Reserch Unit Pianificazione e progettazione urbano-architettonica INDACO dept. Politecnico di Milano, funded by the Italian Ministry of University and Research (MIUR).
6. 12.2006-9.2007: contribution to the project *Il Made in Italy for China. Design di prodotti sostenibili per l'internazionalizzazione delle imprese italiane (The Made in Italy for China. The design of sustainable products for the internationalisation of italian enterprises)*, coordinated by the INDACO dept. Politecnico di Milano, funded by the Italian Ministry of University and Research (MIUR).
7. 12.2006: contribution to the project *Eco-design and environmental quality. For the improvement of environmental performances of production processes and of product in a value chain perspective*, coordinated by the INDACO dept. Politecnico di Milano, funded by Lombardy Region, European funds for regional development.
8. 1999–2003: promoter and coordinator of the national (Italian) research, *Package of 3 software multimedia tools to support didactic activities on the themes of Life Cycle Design (LCD) and Life Cycle Assessment (LCA): Eco.cathedra, Eco.oficina and Eco.disco*, funded by the National Environmental Protection Agency (ANPA now ISPRA).
9. 2.1999–2.2002: promoter and coordinator of the national (Italian) research, *Network of labs for environmental requirements of industrial products. Establishment of a network of coordinated University labs as centers for students and for vocational training on the discipline of environmental requirements of industrial products*, funded by the National Environmental Protection Agency (ANPA now ISPRA).
10. 2.1999 – 10.2001: promoter and coordinator of the national (Italian) research, *Handbook for participatory design for sustainability, for the integration of Life Cycle Design of product and participatory design in the framework of system innovation processes*, funded by the National Environmental Protection Agency (ANPA now ISPRA).
11. 1999 (year): promoter and coordinator of the project *Multimedia didactic LCD software system. Design and implementation of a multimedia software system to support didactic activities on Life Cycle Design (LCD) and Life Cycle Assessment (LCA)*, funded by Politecnico di Milano “Young researchers” program.
12. 1997-2000: contribution to the project *Italian data bank for Life Cycle Assessment (I.LCA)*, coordinated by Impresa Politecnico, funded by the National Environmental Protection Agency (ANPA now ISPRA).

Research activities with private funding (19 with a coordination role for a total of 20 he participated in directly).

1. 3.2019-2.2021: contribution to the project *Re-NetTa: Re-manufacturing Networks for Tertiary Architectures*, coordinated by the ABC dept. Politecnico di Milano, funded by Fondazione Cariplo.
2. 12.2014-1.2016: coordinator of the applied research *Life Cycle Assessment of a mannequin and handbook of design guidelines for the development of mannequins with a low environmental impact*, funded by Bonaveri.
3. 6.2013-1.2014: coordinator of the applied research *Design of Tortona design week/zona Tortona as a "sustainable island"*, funded by Associazione Tortona Area Lab.
4. 1.2010-1.2011: coordinator of the applied research *Eco-efficient scenario development and eco-efficient Product-Service System concept design*, funded by Tetra Pak.
5. 7.2008-1.2012: coordinator of the applied research *Support to the design of an eco-efficient lighting system, with a preliminary Life Cycle Assessment (LCA), the definition of design priorities and final assessment of environmental improvements*, funded by Artemide.
6. 11.2008-11.2009: coordinator of the applied research *Eco-efficient scenario development and eco-efficient Product-Service System concept design*, funded by Kone.
7. 6.2008-12.2008: coordinator of the applied research *Life Cycle Assessment (LCA) of two different solutions for the disposal of Polypropylene coffee pod*, funded by Illy caffè.
8. 6.2008-12.2008: coordinator of the applied research *Life Cycle Assessment of the prototype of a new equipment and production process for multi-threads metallic drawn of aluminum and aluminum alloys*, funded by Tecalco.
9. 1.2007 5.2008: coordinator of the area *System Design for Sustainable Mobility* for the project *Vehicle Design Summit (VDS)*, international consortium composed by 33 universities and coordinated by the Massachusetts Institute of Technology (MIT) of Cambridge USA, funded by a set of companies.
10. 11.2006-1.2008: coordinator of the applied research *Design of an eco-efficient dispenser for draft cold drinks*, funded by General beverage.
11. 6.2007-5.2008: co-coordinator of the applied research *Energy and environmental analysis of the life cycle of the production processes for the packaging in the fruits & vegetables sector*, coordinated by the Materials and chemistry department of the Politecnico di Milano, funded by GIFCO (Italian group of corrugated cardboard producers) and Bestack (International Paper, Fustelpack, Kappa Packaging, SCA-Biopack and Ghelfi Ondulati).
12. 2007-2008: contribution to the applied research *Environmental report of Federlegno arredo 2007*, coordinated by the INDACO dept. of Politecnico di Milano, funded by Federlegno.
13. 1.2007-1.2008: coordinator of the applied research *SEED, Sustainable Elevator Eco-Design. Elevator-specific Ecodesign guidelines/checklist*, funded by Kone.
14. 2006 (year): coordinator of the applied research *Design strategies for environmental quality*

improvement of Kone monospace elevators, funded by Kone.

15. 2005-2006: coordinator of the applied research *Less waste other ways of doing. Design of scenario for the upstream reduction of wastes in the city of Brescia*, funded by ASM Brescia.
16. 2005 (year): coordinator of the applied research *Comparative Life Cycle Assesment (LCA) of various coffe packagings and guidelinees for low environmental impact design*, funded by Illy caffè.
17. 2003: coordinator of the project for the exhibition "*Sustainable domestic*" scenario, for Abitare il tempo, Verona, funded by Abitare il tempo and Elettrolux.
18. 10.2002–9.2003: coordinator of the applied research *LCA of a vending machine with spirals and development of low environmental impact design guidelines*, funded by NECTA Vending.
19. 6.2001-3.2002: coordinator of the applied research *LCA and development of low environmental impact design guidelines for vending machine*, funded by NECTA Vending Solution.
20. 9.1999-12.1999: coordinator of the applied research, *Environmental impact analysis comparing two electric hospital beds*, funded by Dandy Line srl.

LIST OF DIDACTIC ACTIVITIES

The didactic activities are organized in chronological order and grouped as follow:

- **didactic activities at Politecnico di Milano (60 courses and 27 didactic modules/lectures)**
- **didactic activities in Italy, outside Politecnico di Milano (20 modules/lectures)**
- **didactic activities abroad (outside Italy) (50 courses and modules/lectures).**

Didactic activities at Politecnico di Milano

Courses (63):

1. 2019-2020 (on-going): holder of the mono-disciplinary course *System Design for Sustainability*, Master of Science, School of Design, Politecnico di Milano (held in English).
2. 2019-2020: holder of the 2 mono-disciplinary courses *Design per la sostenibilità*
3. *ambientale (Design for environmental sustainability)*, Bachelor of Science, School of Design, Politecnico di Milano.
4. 2018-2019: holder of the mono-disciplinary course *System Design for Sustainability*, Master of Science, School of Design, Politecnico di Milano (held in English).
5. 2018-2019: holder of the 2 mono-disciplinary courses *Design per la sostenibilità*
6. *ambientale (Design for environmental sustainability)*, Bachelor of Science, School of Design, Politecnico di Milano.
7. 2017-2018: holder of the mono-disciplinary course *System Design for Sustainability*, Master of Science, School of Design, Politecnico di Milano (held in English).
8. 2017-2018: holder of the 2 mono-disciplinary courses *Design per la sostenibilità*
9. *ambientale (Design for environmental sustainability)*, Bachelor of Science, School of Design, Politecnico di Milano.
10. 2016-2017: holder of the mono-disciplinary course *System Design for Sustainability*, Master of Science, School of Design, Politecnico di Milano (held in English).
11. 2016-2017: holder of the 2 mono-disciplinary courses *Design per la sostenibilità*
12. *ambientale (Design for environmental sustainability)*, Bachelor of Science, School of Design, Politecnico di Milano.
13. 2015-2016: holder of the mono-disciplinary course *System Design for Sustainability*, Master of Science, School of Design, Politecnico di Milano (held in English).
14. 2015-2016: holder of the 2 mono-disciplinary courses *Design per la sostenibilità ambientale*
15. *(Design for environmental sustainability)*, Bachelor of Science, School of Design, Politecnico di Milano.
16. 2014-2015: holder of the mono-disciplinary course *System Design for Sustainability*, Master of Science, School of Design, Politecnico di Milano (held in English).
17. 2014-2015: holder of the 2 mono-disciplinary courses *Design per la sostenibilità*
18. *ambientale (Design for environmental sustainability)*, Bachelor of Science, School of Design,

Politecnico di Milano.

19. 2013-2014: holder of the mono-disciplinary course *System Design for Sustainability*, Master of Science, School of Design, Politecnico di Milano (held in English).
20. 2013-2014: holder of the 2 mono-disciplinary courses *Design per la sostenibilità*
21. *ambientale (Design for environmental sustainability)*, Bachelor of Science, School of Design, Politecnico di Milano.
22. 2013-2014: holder of the course *Metodi di produzione dell'oggetto d'uso (Production methods of the products)*, integrated into the final degree Laboratory (prof. Gabriella Zuco), Bachelor of Science, School of Design, Politecnico di Milano.
23. 2012-2013: holder of the mono-disciplinary course *System Design for Sustainability*, Master of Science, School of Design, Politecnico di Milano (held in English).
24. 2012-2013: holder of the 2 mono-disciplinary courses *Design per la sostenibilità*
25. *ambientale (Design for environmental sustainability)*, Bachelor of Science, School of Design, Politecnico di Milano.
26. 2011-2012: holder of the mono-disciplinary course *System Design for Sustainability*, Master of Science, School of Design, Politecnico di Milano (held in English).
27. 2011-2012: holder of the 2 mono-disciplinary courses *Design per la sostenibilità*
28. *ambientale (Design for environmental sustainability)*, Bachelor of Science, School of Design, Politecnico di Milano.
29. 2010-2011: holder of the mono-disciplinary course *System Design for Sustainability*, Master of Science, School of Design, Politecnico di Milano (held in English).
30. 2010-2011: holder of the 2 mono-disciplinary courses *Design per la sostenibilità*
31. *ambientale (Design for environmental sustainability)*, Bachelor of Science, School of Design, Politecnico di Milano.
32. 2009-2010: holder of the mono-disciplinary course *System Design for Sustainability*, Master of Science, Design Faculty, Politecnico di Milano (part of the LeNS project, funded by European Union Asia Link program) (held in English).
33. 2009-2010: holder of the 2 mono-disciplinary courses *Design di sistema per la sostenibilità*
34. *(System Design for Sustainability)*, Bachelor of Science, Design Faculty, Politecnico di Milano.
35. 2008-2009: holder of the mono-disciplinary course *System Design for Sustainability*, Master of Science, Design Faculty, Politecnico di Milano (part of the LeNS project, funded by European Union Asia Link program) (held in English).
36. 2008-2009: holder of the 2 mono-disciplinary courses *Design per la sostenibilità ambientale*
37. *(Design for environmental sustainability)*, Bachelor of Science, Design Faculty, Politecnico di Milano.
38. 2007-2008: holder of the mono-disciplinary course *System Design for Sustainability*, Master of Science, Design Faculty, Politecnico di Milano (held in English).

39. 2007-2008: holder of the 2 mono-disciplinary courses *Design per la sostenibilità ambientale*
 40. (*Design for environmental sustainability*), Bachelor of Science, Design Faculty, Politecnico di Milano.
41. 2006-2007: holder of the mono-disciplinary course *System Design for Sustainability*, Master of Science, Design Faculty, Politecnico di Milano (held in English).
42. 2006-2007: holder of the 2 mono-disciplinary courses *Design per la sostenibilità ambientale*
 43. (*Design for environmental sustainability*), Bachelor of Science, Design Faculty, Politecnico di Milano.
44. 2005-2006: holder of the 2 mono-disciplinary courses *Life Cycle Design: I requisiti ambientali dei*
 45. *prodotti industriali (Life Cycle Design: the environmental requirements of industrial products)*, Bachelor of Science, Design Faculty, Politecnico di Milano.
46. 2004-2005: holder of the 2 mono-disciplinary courses *Life Cycle Design: I requisiti ambientali dei*
 47. *prodotti industriali (Life Cycle Design: the environmental requirements of industrial products)*, Bachelor of Science, Design Faculty, Politecnico di Milano.
48. 2003-2004: holder of the course *Design di servizi per la sostenibilità (Service design for sustainability)*, integrated into the lab of *Industrial design of services* (prof. Ezio Manzini), Master of Science, Design Faculty, Politecnico di Milano.
49. 2003-2004: holder of the 2 mono-disciplinary courses *Life Cycle Design: I requisiti ambientali dei*
 50. *prodotti industriali (Life Cycle Design: the environmental requirements of industrial products)*, Bachelor of Science, Design Faculty, Politecnico di Milano.
51. 2002-2003: holder of the 2 mono-disciplinary courses *Requisiti ambientali dei prodotti industriali*
 52. (*The environmental requirements of industrial products*), Master of Science, Design Faculty, Politecnico di Milano.
53. 2001-2002: holder of the 2 mono-disciplinary courses *Requisiti ambientali dei prodotti industriali*
 54. (*The environmental requirements of industrial products*), Master of Science, Faculty of Architecture, Politecnico di Milano.
55. 2000-2001: holder of the 2 mono-disciplinary courses *Requisiti ambientali dei prodotti industriali*
 56. (*The environmental requirements of industrial products*), Master of Science, Faculty of Architecture, Politecnico di Milano.
57. 1999-2000: holder of the 2 mono-disciplinary courses *Requisiti ambientali dei prodotti industriali*
 58. (*The environmental requirements of industrial products*), Master of Science, Faculty of Architecture, Politecnico di Milano.
59. 1998-1999: holder (appointed) of the course *Requisiti ambientali dei prodotti industriali 2 (The environmental requirements of industrial products 2)*, integrated in the lab *Technologies and prototypes experimentations 2* (prof. Makio Hasuike), Master of Science, Faculty of Architecture, Politecnico di Milano.
60. 1998-1999: holder (appointed) of the mono-disciplinary course *Requisiti ambientali dei prodotti industriali 1 (The environmental requirements of industrial products 1)*, Master of Science, Faculty of Architecture, Politecnico di Milano.

61. 1997-1998: holder (appointed) of the course *Requisiti ambientali dei prodotti industriali 2 (The environmental requirements of industrial products 2)*, integrated in the lab *Industrial and environmental design 2* (prof. Makio Hasuike), Master of Science, Faculty of Architecture, Politecnico di Milano.
62. 1997-1998: holder (appointed) of the mono-disciplinary course *Requisiti ambientali dei prodotti industriali 1 (The environmental requirements of industrial products 1)*, Master of Science, Faculty of Architecture, Politecnico di Milano.
63. 1996-1997: holder (appointed) of the mono-disciplinary course *Requisiti ambientali dei prodotti industriali 1 (The environmental requirements of industrial products 1)*, Master of Science, Faculty of Architecture, Politecnico di Milano.

Didactic modules/lectures (27):

1. 1.2014: holder of the didactic module *Product-Service System Design for Sustainability*, within the Master in Service Design, Polidesign, Politecnico di Milano.
2. 1.2013: holder of the didactic module *Product-Service System Design for Sustainability*, within the Master in *Design strategico (Strategic Design)*, Politecnico di Milano.
3. 5.2012: holder of the lecture *Un approccio di sistema al design per la sostenibilità socioetica. Percorso e risultati della ricerca europea TANGO incentrata sull'inclusione sociale e l'eco- efficienza (A system approach to the the design for socioethical sustainability. The process and the outcomes of the TANGO EU funded research focused on social inclusion and eco- efficiency)* within the course *Etica professionale (Professional Ethics, prof. Piercarlo Maggiolini)*, Politecnico di Milano.
4. 3.2012: holder of the didactic module *Principi di design per la sostenibilità (Principles of design for sustainability)*, within the Master in *Collaborative and social Housing*, Polidesign, Politecnico di Milano.
5. 2.2012: holder of the didactic module *Product-Service System Design for Sustainability*, within the Master in *Design strategico (Strategic Design)*, Politecnico di Milano.
6. 5.2011: holder of the didactic module *Product-Service System Design for Sustainability*, within the Master in *Design strategico (Strategic Design)*, Politecnico di Milano.
7. 2010: holder of the didactic module *Design for Sustainability*, within the Master in *Design strategico (Strategic Design)*, Politecnico di Milano.
8. 12.2010: holder of the didactic module *System design for sustainability: a promising approach for emerging and low-income contexts*, within the course *Engineering and cooperation for global development*, Politecnico di Milano (Como).
9. 12.2009: holder of the didactic module *Design for sustainability*, within the course *Engineering and cooperation for global development*, Politecnico di Milano (Como).
10. 4.2009: holder of the didactic module *System Design for Sustainability*, corso *Global change and sustainability*, Alta Scuola Politecnica, Politecnico di Milano e Politecnico di Torino, Bardonecchia.
11. 4.2009: holder of the didactic module *Design for Sustainability*, within the Master in *Design*

strategico (Strategic Design), Politecnico di Milano.

12. 11.2008: holder of the didactic module *System Design for Sustainable Mobility*, within the Master in *Transportation and Automobile Design*, Politecnico di Milano.
13. 10.2007: holder of the didactic module *Design plastica e sostenibilità ambientale (Design plastics and environmental sustainability)*, within the Master *Design for plastics*, Polidesign, Politecnico di Milano.
14. 2006: holder of the didactic module *Designing product-service system for sustainability. Theory, strategies and tools*, within the course *Design and innovation for sustainability* (prof. Ezio Manzini), Bachelor of Science, Faculty of Design, Politecnico di Milano.
15. 3.2006: holder of the didactic module *Design ambientalmente sostenibile per sistemi di illuminazione Environmentally sustainable design for the lighthening systems*, within the Master *Design e tecnologie della luce (Design and light Teechonology)*, Faculty of Design, Politecnico di Milano.
16. 11.2006: holder of the didactic module, *Design for sustainability*, within the Master *Design for plastics*, Polidesign, Politecnico di Milano.
17. 2003-2004: holder of the didactic module *Strategie e strumenti per un design ambientalmente sostenibile (Strategies and tools for design for environmental sustainability)*, within the Master *Fashion design*, European Social funds, Faculty of Design, Politecnico di Milano.
18. 2003-2004: holder of the didactic module *Strategie e strumenti per un design ambientalmente sostenibile (Strategies and tools for design for environmental sustainability)*, within the Master *Design per l'industria degli apparecchi domestici elettrici ed elettronici (Design for home electric and electronic appliances)*, European Social funds, Faculty of Design, Politecnico di Milano.
19. 2002-2003: holder of the didactic module *Strategie e strumenti per un design ambientalmente sostenibile (Strategies and tools for design for environmental sustainability)*, within the Master in *Furniture design*, European Social funds, Faculty of Design, Politecnico di Milano.
20. 2002-2003: holder of the didactic module *Strategie e strumenti per un design ambientalmente sostenibile (Strategies and tools for design for environmental sustainability)*, within the Master *Design per l'industria degli apparecchi domestici elettrici ed elettronici (Design for home electric and electronic appliances)*, European Social funds, Faculty of Design, Politecnico di Milano.
21. 2002-2003: holder of the didactic module *Strategie e strumenti per un design ambientalmente sostenibile (Strategies and tools for design for environmental sustainability)*, within the Master *Fashion design*, European Social funds, Faculty of Design, Politecnico di Milano.
22. 6.2002: holder of the didactic module, *Design di prodotti ambientalmente sostenibili (design for environmentally sustainable products)*, within the Master *Yacht Design*, Polidesign, Politecnico di Milano.
23. 11.2001: holder of the didactic module *Design orienting scenario. Linee guida per lo sviluppo di sistemi sostenibili (Design orienting scenario: Guidelines for the development of sustainable systems)*, integration within a curricular workshop (prof. Francois Jegou), Master of Science, Faculty of Architecture, Politecnico di Milano.

24. 2001-2002: holder of the didactic module, *Analisi e sviluppo di prodotti sostenibili. Sensibilità, metodi e strumenti (Analysis and development of sustainable products. Sensibility, methods and tools)*, within the Master *Design strategico (Strategic Design)*, Politecnico di Milano.
25. 2000-2001: holder of the didactic module *Analisi e sviluppo di prodotti sostenibili. Sensibilità, metodi e strumenti (Analysis and development of sustainable products. Sensibility, methods and tools)*, within the Master in *Design strategico (Strategic Design)*, Politecnico di Milano.
26. 5.2001: holder of the didactic module *Progettazione di prodotti/servizi sostenibili (Design of sustainable product/services)*, within the PhD course "Tecnologia e progetto per la qualità ambientale a scala edilizia e urbana" (Technology and design for the environmental quality on building and urban scale), Faculty of Architecture, Politecnico di Milano.
27. 1999-2000: holder of the didactic module *Analisi e sviluppo di prodotti sostenibili. Sensibilità, metodi e strumenti (Analysis and development of sustainable products. Sensibility, methods and tools)*, within the Master in *Design strategico (Strategic Design)*, Politecnico di Milano.

Didactic activities in Italy, outside Politecnico di Milano (20 didactic modules)

1. 10.2012: holder of the didactic module *Life Cycle and Functional Thinking: principi di progettazione per la sostenibilità e valutazione dell'impatto ambientale (LCA) (Life Cycle and Functional Thinking: design principles for the design and the environmental (LCA)*, Aghape Imola.
2. 5.2012: holder of the didactic module *Principi di design per la sostenibilità (design principles of design for sustainability)*, within the course on Design for the yacht and sustainable product, PhD School of Architecture and Design Scuola, Università degli Studi di Genova.
3. 2.2012: holder of the didactic module *Intro to Product-Service System design for sustainability*, Mater in Service and Experience Design, Domus Academy, Milan.
4. 7.2011: holder of the didactic module *System Design for Sustainability*, Master in Advanced Design for Transportation, IED Torino.
5. 2.2010: holder of the didactic module *System Design for Sustainability*, within the Master in Advanced Design for Transportation, IED Torino.
6. 11.2009: holder of the didactic module *Design per la sostenibilità ambientale (Design for environmental sustainability)*, within the course *Elica IDI 2009*, Cefriel, Fabriano.
7. 3.2007: holder of the didactic module *Design per la sostenibilità ambientale (Design for environmental sustainability)* Nuova Accademia di Belle Arti, Milan.
8. 2007: holder of the didactic module *Design per la sostenibilità ambientale (Design for environmental sustainability)*, for ADI Associazione per il Disegno Industriale Lombardia in collaboration with Assolombarda, Milan.
9. 2006: holder of the didactic module *Design per la sostenibilità ambientale (Design for environmental sustainability)*, for ADI (Associazione per il Disegno Industriale Lombardia) in collaboration with Assolombarda, Milan.
10. 3.2005: holder of the didactic module *Progettazione per la sostenibilità ambientale. Strumenti di*

design per la sostenibilità eco.cathedra, eco.disco ed eco.oficina (Design for environmental sustainability. Design for sustainability tools eco.cathedra, eco.disco and eco.officina), FAD sistema di formazione ambientale a distanza (system for environmental remote education), APAT (Environmental Protection Agency and Technical Systems), Rome.

11. 9.2000: holder of the didactic module *Life Cycle Design*, within the *Summer Workshop 2000 – Campus Fantoni*, Centro Ricerche Fantoni, Osoppo (Udine).
12. 6.2000: holder of the didactic module *Analisi e sviluppo di prodotti sostenibili (analysis and development of sustainable products)*, within the course *Operatore di tecnologie bioclimatiche (operator for bioclimatic technologies)*, Minosse, Milan.
13. 6.1999: holder of the didactic module *Lo sviluppo di prodotti sostenibili (The development of sustainable products)*, within the Master *Design e Bionica (Design and Bionic)*, Centro di Ricerche, Istituto Europeo di Design (IED), Milan.
14. 1.1999: holder of the didactic module *Lo sviluppo di prodotti sostenibili (The development of sustainable products)*, within the course *Gestione Integrata dell’Ambiente (Intergrated environmentl management)*, Scuola Europea di studi avanzati in gestione integrata dell’ambiente, Università degli Studi di Pavia, Pavia.
15. 2.1999: holder of the didactic module *Design per la sostenibilità ambientale (Design for environmental sustainability)*, within the course *Master in Design*, Domus Academy, Milan.
16. 1998: holder of the didactic module *Metodologie di riduzione a monte dei rifiuti, (Methodology of upstream waste reduction)*, within the lifelong course for Technician in separate collection of waste, Social European fund and Lombardy Region, Milan.
17. 1998: holder of the didactic module *La progettazione ambientalmente consapevole (Enviromentally conscious design)* within the Master di *Design e Bionica (Design and Bionic)*, Centro di Ricerche Istituto Europeo di Design (IED), Milan.
18. 1997: holder of the didactic module *Lo sviluppo di prodotti sostenibili (The development of sustainable products)*, within the Master in Design of PASTIS-Centro Nazionale per la Ricerca e lo Sviluppo dei Materiali (CNRSM), project CETMA, ENEA, EU STRIDE project, Brindisi.
19. 1997: holder of the didactic module *La progettazione ambientalmente consapevole (Enviromentally conscious design)*, within the Master di *Design e Bionica (Design and Bionic)*, Centro di Ricerche Istituto Europeo di Design (IED), Milan.
20. 1996: holder of the didactic module *La progettazione ambientalmente consapevole (Enviromentally conscious design)*, within the Master di *Design e Bionica (Design and Bionic)*, Centro di Ricerche Istituto Europeo di Design (IED), Milan.

Didactic activities abroad (outside Italy) (53 courses and didactic modules/lectures)

1. 12-23.02.2018: co-holder (*guest teacher*) of the course *Sustainable Product-Service Systems design applied to Distributed Manufacturing & Distributed Design*, Indian Institute of Technology - Guwahati, Guwahati India (within the LeNSin project, funded by the European Union Erasmus+ program).

2. 26.06-7.07.2017: co-holder (*guest teacher*) of the course *Sustainable Product-Service Systems design applied to Distributed Manufacturing & Distributed Design*, I Universidade Federal de Pernambuco (UFPE), Recife, Brasil (within the LeNSin project, funded by the European Union Erasmus+ program).
3. 15-26.5.2017: co-holder (*guest teacher*) of the course *Sustainable Product-Service Systems design applied to Distributed Manufacturing & Distributed Design*, Universidad Autónoma Metropolitana (UAM) Azcapotzalco, Mexico City, Mexico (within the LeNSin project, funded by the European Union Erasmus+ program).
4. 19.02.2016: holder of the lecture *The design research approach of the DIS - Design and system Innovation for Sustainability research unit*, for the PhD di design, Srishti Institute of Art, Design and Technology, Bangalore, India (remote video lecture).
5. 2-6.5.2015: co-holder (*guest teacher*) of the lifelong learning course *Designing Sustainable Product-Service System (S.PSS) Offer Models for Distributed Renewable Energy (DRE) systems*, University of Botswana, Industrial Design, Industrial Design & Technology Department, Gaborone, Botswana (within the LeNSes project, funded by the European Union Edulink program).
6. 4-15.5.2015: co-holder (*guest teacher*) of the course *System Design for Sustainable Energy for All*, University of Nairobi, School of Art and Design, Nairobi, Kenya (within the LeNSes project, funded by the European Union Edulink program).
7. 11.2014: holder of the didactic module *Product-Service System Design for Sustainability*, Universidad Autónoma Metropolitana Azcapotzalco, Mexico City, Mexico.
8. 27.10-7.11.2014: co-holder (*guest teacher*) of the course *System Design for Sustainable Energy for All*, Cape Peninsula University of Technology, Cape Town, South Africa (within the LeNSes project, funded by the European Union Edulink program).
9. 5.2014: holder of the lecture *The challenging story of design for sustainability*, School of Art & Design, Wuhan University of Technology, Wuhan, China.
10. 9.2013: holder of the didactic module *System Design for Sustainability*, within the course *Responsible Innovation* (prof. Ben Walker), L'École de design Nantes Atlantique, Nantes, France.
11. 7.2013: holder of the lecture *Design research for sustainability: the next challenges*, with the PhD in design curricula of the School of Engineering and Design, Brunell University, London, United Kingdom.
12. 11.2012: holder of the didactic module *System Design for Sustainability*, within the master Creative sustainability, Aalto University, Helsinki, Finland.
13. 09.2011: holder of the didactic module *System design for sustainability*, Estonian Academy of Arts, Tallin, Estonia.
14. 2.2011: holder of the didactic module *System Design for Sustainability*, Oslo School of Architecture and Design, Oslo, Norway.
15. 11.2011: holder of the didactic module *System design for sustainability: new research frontiers*, Honk Kong Polytechnic University, The School of design, Honk Kong, China.

16. 5.10.2011: holder of the didactic module *An introduction to design for sustainability*, Hunan University, School of design, Changsha, China.
17. 6.11.2011: holder of the lecture module *An introduction to system design for sustainability*, School of Design, Jiangnan, University, Wuxi, China.
18. 6.11.2010: holder of the lecture (and launch of the book) *Design di sistema per la sostenibilità (System design for sustainability)*, UNICURITIBA, Núcleo de Design & Sustentabilidade da UFPR, Centro de Design do Paraná, Curitiba, Brasil.
19. 4.11.2010: holder of the lecture (and launch of the book) *Design di sistema per la sostenibilità (System design for sustainability)*, Universidade do Estado De Minas Gerais (UEMG), Belo Horizonte, Brasil.
20. 8.10.2010: holder of the didactic module *System Design for Sustainability*, Indian Institute of Technology, Guwahati, Guwahati, India.
21. 01.2010 holder of the didactic module *System Design for Sustainability*, Tohoku University, Sendai, Japan.
22. 11-12.2009: co-holder (*guest teacher*) of the course *Design for Sufficiency Economy*, Department of Industrial Design, Faculty of Architecture, King Mongkut's Institute of Technology Ladkrabang (KMITL), Bangkok, Thailand (within the LeNS project funded by the European Union, Asia Link program).
23. 10.2009: holder of the didactic module *Design for sustainability an Italian approach e Sustainability IN Design: NOW!* within the course *Sustainable Mobility solutions*, Academy of design & arts, Industrial design department, Tsinghua University, Beijing, China (within the LeNS project funded by the European Union, Asia Link program).
24. 10.2009: holder of the didactic module *Design for sustainability an Italian approach*, within the course *PSS design for sustainability*, Sritshi School of Art, Design and Technology, Bangalore (within the LeNS project funded by the European Union, Asia Link program).
25. 9.2009: holder of the didactic module *Design for sustainability: an introduction*, Cape Peninsula University of Technology, Cape Town, South Africa.
26. 7.2009: co-holder (*guest teacher*) of the course *Product-Service System Design for Sustainability: Food Chain*, Indian Institute of Technology Delhi, New Dehli (within the LeNS project funded by the European Union, Asia Link program).
27. 4.2009: holder of the lecture *Design for sustainability: an introduction*, within the Curso de Especialização em Ecodesign 2009, Inovação social, mudança de comportamento e desmaterialização do consumo, Universidade Positivo, Curitiba, Brasile (remote video lecture).
28. 12.2008: holder of the didactic module *System Design for Sustainability*, Tohoku University, Sendai, Japan.
29. 11.2008: holder of the didactic module *System Design for Sustainability*, within the course *Sustainable Industrial and Urban Design*, University of Art and Design (TAiK), Helsinki, Finland.
30. 9.2008: holder of the didactic module (*Product-Service*) *System innovation for sustainability*,

Cranfield University, IMRC, Cranfield, United Kingdom.

31. 6.2007: holder of the didactic module and workshop *Exploring opportunities of the design for environmental sustainability. Investigation on the internationalization of an Italian 'best-practice' company*, Academy of Arts & Design, Tsinghua University, Beijing (for the project Made in Italy for China funded by the Italian Ministry of Education and Research).
32. 6.2007: holder of the didactic module and workshop *Exploring opportunities of the design for environmental sustainability. Investigation on the internationalization of an Italian 'best-practice' company*, Hong Kong Polytechnic University (for the project Made in Italy for China funded by the Italian Ministry of Education and Research).
33. 8.2006: holder of the seminar and workshop *Exploring opportunity workshop with COEMBRA cooperative*, Incubadora Tecnológica de Cooperativas Populares ITCP-UFPR/COEMBRA, Universidade Federal do Paraná, Curitiba, Brasil.
34. 8.2006: holder of the didactic module *System design for sustainability*, within the Master Product-Service System, Universidade Federal do Paraná, Curitiba, Brasil.
35. 8.2006: holder of the didactic module *Design di sistema per la sostenibilità nel settore dei mobili. Workshop: strumenti di design per la sostenibilità applicati a un tavolino da bar (System design for sustainability in the furniture sector: Workshop: design tools for sustainability applied to a bar table)*, UTFPR Universidade Tecnológica Federal do Paraná, Curitiba, Brasil.
36. 8.2006: holder of the didactic module *Design di sistema per la sostenibilità nel settore dei mobili (System design for sustainability in the furniture sector)*, UNIBRASIL Faculdade Integrada do Brasil, Curitiba, Brasil.
37. 12.2005: holder of the didactic module *Design for sustainability: the new frontiers*, Academy of Arts & Design, Tsinghua University, Beijing, China.
38. 11.11.2005: holder of the didactic module *System (strategic) design for sustainability: possible integration between environmental and socio-ethical dimensions*. Design Department, Federal University of Paraná, Curitiba, Brasil.
39. 7.11.2005: holder of the didactic module *System design and possible integration between environmental and socio-ethical dimensions*, Universidade Sao Paulo, Sao Paulo, Brasil.
40. 2.2004: holder of the didactic module *Designing PSS for emerging contexts*, within the course *Product-Service System (PSS)*, Master of Science, Faculty of Industrial Design, TU Delft, The Netherlands.
41. 7.2003: holder of the lecture (with the launch of an author book), *O desenvolvimento de produtos sustentáveis (The development of Sustainable products)*, Universidade do Estado da Bahia - UNEB, support by the UNEB, Salvador Bahia, Brasil.
42. 7.2003: holder of the lecture *O desenvolvimento de produtos sustentáveis (The development of Sustainable products)*, Universidade de Brasilia – UNB, patronized by the Italian Embassy in Brasilia and by UNB, Brasilia, Brasil.
43. 7.2003: holder of the didactic module *Design for sustainability* Escola Superior de Desenho Industrial – ESDI, Rio de Janeiro, Brasil.

44. 7.2003: holder of the lecture (with the launch of an author book), *O desenvolvimento de produtos sustentáveis (The development of Sustainable products)*, Italia Hall of the Italian institute of Culture, patronized by the Escola Superior de Desenho Industrial – ESDI and by the Italian Insittute of Cuture, Rio de Janeiro, Brasil.
45. 6.2003: holder of the lecture (with the launch of an author book) *O desenvolvimento de produtos sustentáveis*, auditorio John Henry Newman, Pontificia Università Cattolica PUC/PR, patronised by the general Consulate in Curitiba and by the centre of Itlain culture PR/SC, Curitiba, Brasil.
46. 6.2003: holder of the didactic module and workshop, *Design for a sustainable future*, Universidade Federal do Parana, Curitiba, Brasil.
47. 6.2003: holder of the didactic module (with the launch of an author book) *Design per la sostenibilità (Design for environmental sustainability)*, IPT auditorium, IPT - Instituto de Pesquisas Tecnológicas; Auditório Adriano Marchini; Cidade Universitária, Edusp, Faculdade Arquitetura e Urbanismo (FAU-USP) and SP Design centre, San Paolo, Brasil.
48. 11.2000: holder of the didactic module/workshop, *Design and Sustainability*, within the post- doc course Design Processes, Universidade de Sao Paulo, Faculdade de Architectura e Urbanismo, San Paolo, Brasil.
49. 11.2000: holder of the didactic module *Design, architettura e sostenibilità*, (Design Architecture and sustainability, within the post-doctoral course, Universidade Mackenzie, San Paolo, Brasil.
50. 11.2000: holder of the didactic module *Design e sostenibilità (Design and sustainability)*, Centro Federal de Educacao Tecnologica do Parana (CEFET-PR), Curitiba, Brasil.
51. 10.1999: holder of the didactic module and workshop *Scenarios for sustainable (babies) growth*, for Ideal design, Industrial Design department, Technical University Delft, The Netherlands.
52. 8.1997: holder of the didactic module and workshop *Design For Sustainability*, Lahti Polytechnic Institute of Design, Lahti, Finland.
53. 1997: holder of the didactic module and workshop *Innovation and Sustainability. Strategic Design for a new mix of product and services*, for Ideal design, Industrial Design department, Technical University Delft, The Netherlands.

LIST OF PRESENTATIONS AT CONFERENCES/SEMINARS

The presentations are grouped per type of conference as follow:

- **International conferences/seminars (75, 23 as keynote/invited speeches and 5 promoted and coordinated)**
- **National (Italian) conferences /seminars (19 and 9 promoted and coordinated).**

International conferences /seminars

(79, 23 as keynote/invited speeches and 5 promoted and coordinated)

1. 16.05.2019: *FASHION REVOLUTION/ 2019*, University of Beira Interior, Portugal
Vezzoli C. (**invited speech**), A new design hope. LeNS - the open learning network on sustainability
2. 3-5.4.2019: *Designing sustainability for all. The 3rd LeNS world distributed conference*, conferenza internazionale, Milano, Città del Messico, Curitiba, Città del Capo, Bangalore, Pechino
Vezzoli C. (**opening statements**) *Designing sustainability for all and the LeNS network*
3. 17-18-19.10.2018: *BEYOND ALL LIMITS / 2018*. International Congress on Sustainability in Architecture, Planning, and Design, Universidade ÇANKAYA UNIVERSITY MAIN CAMPUS; Turkey
Vezzoli C. (**invited speech**), A new design hope. LeNS - the open learning network on sustainability
4. 22.03.2018: *AFRICA AFRICA Exploring the Now of African design and photography*, Palazzo Litta, Milan.
Vezzoli C. and Bacchetti E. (**invited speech**), *Sustainable Energy for Africa by Design. How to address the issue of energy access in low - and middle-income contexts*
5. 06.10.2017: *Seminario Design Educacao*, Universidade do Estado de Minas Gerais UEMG, Belo Horizonte, Brasil.
Vezzoli C. (**invited speech**), *A new design hope. The open education of the LeNS - the Learning Network on Sustainability*
6. 10-11.11.2016: *Distributed Design & Distributed Manufacturing for Sustainable Product- Service Systems*, the 5th International LeNSin Seminar, Srishti School of Design, Bangalore, India.
Vezzoli C. (**keynote speech**), *System design for sustainability for all*
7. 1-3.11.2016 *EcodAI 2º Congreso Latinoamericano de Ecodiseño*, Universidad El Bosque, Bogotá, Colombia
Vezzoli C. (**keynote speech**), *Design for sustainability: now! The international open and multipolar Learning Network on Sustainability - LeNS*
8. 21-22.10, 2016: *Sustainable Product Service Systems Design applied to Distributed Economy*, the 4th International LeNSin Seminar, Tsinghua University, Beijing, China. Vezzoli C. (**keynote speech**), *System design for sustainability for all*
9. 20-21.6.2016 *8th CIRP IPSS conference Product-Service Systems across Life Cycle*, Bergamo, Italia
Vezzoli C., Bacchetti E., Landoni P. *Sustainable Product-Service System (S.PSS) applied to Distributed Renewable Energy (DRE) in low and middle-income contexts: a case studies analysis.*
10. 28-30.9.2016: *Sustainable Energy for All by Design*, International conference, Cape Town, South Africa (**promoted and coordinated by him**).

Vezzoli C. (opening statements) *The Learning Network on Sustainable energy system.*

11. 28-30.9.2016: *Sustainable Energy for All by Design*, International conference, Cape Town, South Africa.

Vezzoli, C., Bacchetti, E., Ceschin, F., Moalosi, R., Nakazibwe, V., Osanjo, L., M'Rhitaa, M., Costa, F. *System Design for Sustainable Energy for All. A new knowledge base and know-how developed within the LeNSes European and African project.*

12. 28-30.9.2016: *Sustainable Energy for All by Design*, International conference, Cape Town, South Africa.

Vezzoli, C., Bacchetti, E., Vanitkoopalangkul, K. *Sustainable Product-Service System applied to Distributed Renewable Energies: a Scenario tool.*

13. 28-30.9.2016: *Sustainable Energy for All by Design*, International conference, Cape Town, South Africa.

Vezzoli, C., Delfino E., Polon M. *Sustainable energy for all system design tool: the E.DRE tool, Estimator of Distributed Renewable Energy load/need and production potential.*

14. 29.05.2015: *Crowd innovation for sustainability* international conference funded by the European Union, Sustainabilitymaker project, Life+ program (**promoted and coordinated by him**).

Vezzoli C., (opening statements) *Crowd innovation for sustainability.*

15. 23-26.05.2014: *2014 International design summit forum. re-design design education conference (III). Philosophic concepts*, Wuxi, China.

Vezzoli C. (invited speech) *The learning network on sustainable energy systems. system design for sustainable energy for all.*

16. 23-25.05.2014: *The International Conference on Frontiers of Design and Manufacturing – ICFDM 2014. Interdiscipline, innovation and leadership*, Nanjing, China.

Vezzoli C. (invited speech) *System Design For Sustainable Energy For All. The Learning Network on Sustainable energy systems.*

17. 5.12.2014: *5th Simpósio Paranaense de Design Sustentável*, Federal University of Paraná, Curitiba, Brasil.

Vezzoli C. (**keynote speech**) *“Energizing” low income contexts. Designing Sustainable Product-service System applied to Distributed Renewable Energy.*

18. 07.2015: *International Conference on Engineering Design 2015 (ICED 2015)*, EXPO 2015 Events, Politecnico di Milano, Milan.

Vezzoli C. (**invited speech**) *Designing system discontinuity for sustainability*

19. 27.11.2014: *internatonal seminar Universidad Autónoma Metropolitana Azcapotzalco*, Mexico City, Mexico

Vezzoli C. (**keynote speech**) *System Design for Sustainable Energy for All. The Learning Network on Sustainable energy systems*

20. 9.10-11.10.2013: *Relating Systems Thinking & Design 2013. Emerging Contexts for Systemic Design*, International conference, AHO – Oslo School of Architecture & Design Oslo, Norway. Vezzoli C. (**keynote speech**), *System design for sustainable energy for all. The Learning Network on Sustainable energy systems EU funded project.*

21. 24.3-27.3.2013: *Vth International Conference on Life Cycle Assessment, CILCA2013*, Facultad Regional Mendoza, Universidad Tecnológica Nacional, Mendoza, Argentina.

- Vezzoli, C. Baron, G. (poster) *LCA applied case: Strategic Analysis for a Sustainable Traveling Exhibition.*
22. 8-10.11.2012: *International Conference on Sustainable and inclusive design*, Guimarães, Portugal.
Vezzoli C. (**keynote speech**), *A system approach to (co)design for sustainability and inclusion. Preliminary results of the EU funded TANGO project focused on intergenerational dialogue and eco-efficiency.*
23. 2.5.2012-4.5.2012: *15th European Roundtable on Sustainable Consumption and Production (15th ERSCP)*, Bregenz, Austria.
Vezzoli C. (**keynote speech**), *From "appropriate technologies" to "appropriate stakeholders interactions": system design for sustainability, a promising approach to couple eco-efficiency with social equity and cohesion.*
24. 5.5.2011-6.5.2011: *3rd CIRP International Conference on Industrial Product Service Systems*. Technische Universität Braunschweig, Braunschweig, Germany.
Vezzoli C., Ceschin F., Vergragt P., *Small scale socio-technical experiments as stepping stones for eco-efficient product-service systems diffusion: A new role for strategic design for sustainability.*
25. 10.11.2010: *1° encuentro nacional de docentes en diseño para la sustentabilidad*. National conference, Mexico City
Vezzoli C. (**keynote speech**). *A growing demand of education on design for sustainability.*
26. 27.10.2011–29.10.2011: *Tao of Sustainability. Strategies in a globalisation context*. International conference, Beijing, China.
Vezzoli C. (**keynote speech**). *System design for sustainability. The new research frontiers.*
27. 3.02.2011 *"NO LIMITS" – a multidisciplinary research gathering*, Aalto University, Helsinki,
Vezzoli C. (invited speech) *System design for sustainability. A multidisciplinary research area*
28. 27.10.2010–29.10.2010: *Technological Challenges for Design and graphic printing*. 1st International Conference in Design and Graphic Arts (CIDAG). Lisbon, Portugal.
Vezzoli C. (**keynote speech**), *Design for social equity and cohesion. A new role in designing systems of products, services and stakeholder interactions.*
29. 29.09.2010–01.10.2010: *Sustainability in Design: Now! - Challenges and Opportunities for Design Research, Education and Practices*, International conference, Bangalore, India (**promoted and coordinated by him**).
Vezzoli C. (opening statements) *The Learning Network on Sustainability.*
30. 29.09.2010–01.10.2010: *Sustainability in Design: Now! - Challenges and Opportunities for Design Research, Education and Practices*, International conference, Bangalore, India.
Vezzoli C., Cortesi S., Donghi C., *Case study of the design of Eco-Efficient Product-Service- System for KONE Corporation, using the MSDS method and tools.*
31. 29.09.2010–01.10.2010: *Sustainability in Design: Now! Challenges and Opportunities for Design Research, Education and Practices*, International conference, Bangalore, India.
Vezzoli C., Indorewala H. *Our Common Nature. Insights from the "moral faculty" and its potential role in system design for socially and environmentally sustainable outcomes.*
32. 29.09.2010–01.10.2010: *Sustainability in design: now! Challenges and opportunities for design research, education and practice in the XXI century*, International conference, Bangalore, India.
Vezzoli C., Ceschin F., Zingale S. *An aesthetic for sustainable interactions*
33. 08.03.2010-10.03.2010: Conference, *INTED2010 International Technology, Education and*

- Development, Valencia, Spain.*
- Vezzoli C., F. Ceschin. *A new ethos for a multipolar design learning community: a mechanism for the development and diffusion of teaching materials on design for sustainability in an open-source and copy left ethos.*
34. 8.11.2010: *8th International Seminar "NUTAU 2010" design and innovation: messages and products for sustainable environments, Sao Paulo, Brasil.*
- Vezzoli C. (**keynote speech** and **launch of the book**) *Design de sistemas para a sustentabilidade (System design for sustainability).*
35. 5-6.11.2009: *International Symposium on Sustainable Design, SBDS 2009, São Paulo, Brasil*
- Vezzoli C. (**keynote speech**), *Sustainability in design: now! LeNS, a regenerative, open and multipolar learning-by sharing platform on design for sustainability.*
36. 6-9.9.2009: *International Conference on Life Cycle Management 2009, Cape Town, South Africa*
- Vezzoli C., Ceschin F., M'Rithaa M., *LeNS_AFRICA. An African Learning Network on Sustainability for the development and diffusion of teaching materials and tools on Design for Sustainability in an open-source and copyleft ethos.*
37. 20-21.3.2009: *Know-how: Talent, Knowledge and Interaction Interdisciplinary Seminar, Lisbon, Portugal.*
- Vezzoli C., Ceschin F., *LeNS, the learning network on sustainability. A mechanism for the development and diffusion of teaching materials and tools on Design for Sustainability in an open-source and copy left logic.*
38. 1.10.2008: *Second expert meeting on sustainable innovation. Sustainable Innovation & Business Models, UNEP (United Nation Environment Program), Paris, France.*
- Vezzoli C., *LeNS, the learning network on sustainability. A new generation of designer (and design educators) on design for sustainability focused on (Product-Service) System Innovation for sustainability.*
39. 10-12.7.2008: *Changing the change, International conference, Turin, Italy.*
- Vezzoli C., Ceschin F., Kemp R., *Designing transition paths for the diffusion of sustainable system innovations. A new potential role for design in transition management?*
40. 10-12.7.2008: *Changing the change, International conference, Turin, Italy.*
- Vezzoli C., Penin L. *The learning network on sustainability. A mechanism for the development and diffusion of system design for sustainability in design schools.*
41. 10-11.3.2008: *Sustainable Consumption and Production (SCP) Framework for Action, Brussels, Belgium.*
- Vezzoli C., Ceschin F., *Designing sustainable system innovation for low-industrialised contexts. A transition path towards local-based and long lasting sustainable mobility solution in African contexts.*
42. 11.2007: *Framework for Action for Sustainable Consumption and Production (SCP) in the field of Food, Mobility and Energy/Housing, SCORE! International conference, European Union funded project 6FP, Politecnico di Milano, Milan, Italy (promoted and coordinated by him).* Vezzoli C. (opening statements) *The SCORE! Project.*
43. 6.2007: *European Roundtable on Sustainable Consumption and Production, Basel, Switzerland.*
- Vezzoli C., Ceschin F., *System innovation for sustainability development in practice. Application and evaluation of the SDOS (Sustainability Design-orienting Scenario) methodology for the upstream wastes reduction in the food and in the paper chains in the city of Brescia.*

44. 4.2006: *Perspectives on radical changes to sustainable consumption and production, session: design for sustainability*, SCORE! European Union funded project 6FP, Copenhagen, Denmark. **(co-promoted and coordinated by him)**
Vezzoli C., *Design for sustainable consumption. New design roles towards system innovation*
45. 7-8.9.2006: *Engineering and product design education conference*, Salzburg University of applied sciences, Salzburg, Austria.
Vezzoli C., *Educating designers to transcultural creative-thought for sustainability.*
46. 8.2006: *7th Brazilian Conference on Design, P&D*, Curitiba, Brasil.
Vezzoli C. (**keynote speech**), *Design for sustainability: the new research frontiers*
47. 8.2006: *7th Brazilian Conference on Design, P&D*, Curitiba, Brasil.
Vezzoli C., Liliane C., *Design para a sustentabilidade: um percurso metodológico para pesquisa aplicada no setor de móveis de escritório (Design for sustainability: a methodological route for applied research in office furniture sector).*
48. 10.2005: *research - in and through the arts*, international conference, ELIA UDK, Berlin, Germany.
Vezzoli C., (**keynote speech**), *A migrant design creative-thought. Fostering needed discontinuity for sustainability.*
49. 3.2005: *Design Education. Tradition and Modernity*, International conference, Ahmedabad, India.
Vezzoli C., Penin L., *Design research and education for sustainability in emerging countries.*
50. 10.2004: *EESD2004 Engineering Education and Sustainable Development 2004*, Barcelona, Spain.
Vezzoli C., Sciamia D., *Experimental educational networking on research open issues.*
51. 6.2004: *EMSU2004, Environmental Management for Sustainable Education*, International conference, Monterrey, Mexico.
Vezzoli, C., Penin L. (**keynote speech**), *Campus: "lab" and "window" for sustainable design research and education. The DECOS educational network experience.*
52. 6.2004: *Sustainable Product-Service-Systems: 'The value in practice'*, 2nd International Conference - Thematic Network on Sustainable Product-Services (SusProNet), Brussels, Belgium.
Vezzoli, C., Penin L., *Sustainable PSS design in emerging contexts.*
53. 11.2004: *Forum International Brasil-Italia*, Universidade do Oeste de Santa Catarina (UNOESC), Joaçaba, Brasil.
Vezzoli, C. (**keynote speech**), *Design para a sustentabilidade ambiental: da pesquisa a formação (Design for environmental sustainability: from research to education).*
54. 10.2004: *Éco-design en europe*, Lione, France
Vezzoli, C. (**keynote speech**), *Design for environmental sustainability: from theory to company practice*
55. 11.2003: *Vision of possible worlds*, International conference, Triennale, Milan, Italy

Vezzoli C., Penin L., *Vision of Sustainable Product-Service Systems in emerging contexts. Clothing care in university campuses of Brazil, China, India and Turkey.*

56. 11.2003: *Vision of possible worlds*, International conference, Triennale, Milan, Italy.
Vezzoli C., Sciamia D., *Educational networking for both consolidating and innovating the “design for sustainability” discipline.*

57. 6.2003: *Encontro Italo-Brasileiro em Design como Recurso Estrategico*, Curitiba, Brasil
Vezzoli, C., *Strategic Design for Sustainability.*

58. 5.2003: *VALID, Value in design*, International conference, Tallinn, Estonia.
Vezzoli, C., (**Keynote speech**) *Designing systemic innovation for sustainability.*

59. 10.2002: *Engineering Education in Sustainable Development*, International conference, Delft University of Technology, Delft, The Netherlands.
Vezzoli, C., *Educational strategies, projects and tools for higher education improvement in the field of sustainable product and service development. Educational experiences, projects and tools co-ordinated by the Interdepetemental Research Centre in Innovation for environmental sustainability of the Politecnico di Milano University.*

60. 10.2002: *Engineering Education in Sustainable Development*, International conference, Delft University of Technology, Delft, The Netherlands.
Vezzoli C., *Eco.officina, a software tool for student exercise and practices in the field of Life Cycle Design and Life Cycle Assessment (poster).*

61. 11.2002: *Product Sustainability Assessment*, International seminar, PROSA, Freiburg, Germany.
Vezzoli, C., *Approach for the development of sustainable guidelines and assessment criteria to be integrated in a design process.*

62. 11.2002: *International conference on ecodesign IEEP*, New Delhi, India
Vezzoli, C., *From life cycle design to sustainable product-service system design. Approach and preliminary results of the EU research “MEPSS. A toolkit for industry”.*

63. 11.2002: *International conference on ecodesign IEEP*, New Delhi, India
Vezzoli, C., Soumitri G. V., *Sustainable product-service system design for all. A design research working Hypothesis. Clothing care system for Kumaon hostel at IIT Dehli.*

64. 5.2002: *Sustainable product service systems. Exploring key definitions and concepts*, CMER, INSEAD, Fontainebleau, France.
Vezzoli, C., *Product Service Systems definitions, and potential for system eco-efficiency and applicability to developing and newly industrialised countries.*

65. 10.2001: *International COPERNICUS conference, “Higher Education for Sustainability”*
University of Luneburg, Luneburg, Germany.
Vezzoli C., *Higher education and teacher’s education in design for sustainability. Italian experiences and projects co-ordinated by the Politecnico di Milano University.*

66. 10.2001: *Towards Sustainable Product Design*, International conference, Amsterdam, The Netherlands.
Vezzoli C., Manzini E., *Product Service Systems as a strategic design approach to sustainability. Examples taken from the “Sustainable Innovation” Italian prize.*

67. 5.2001: *The 7th European Round table on Cleaner Production, “Sustainable Production and*

- Consumption System – Co-operation for Change*", Lund, Sweden.
- Vezzoli C., *A new generation of designers: perspectives for education and training in the field of sustainable design. Experiences and projects at the Politecnico di Milano University.*
68. 10.2000: *Expert meeting on product Sustainable Service System*, United Nation Environmental Programme (UNEP), econcept, Cologne, Germany.
- Vezzoli C., *Eco-Efficient Product-Service System.*
69. 9.2000: *Changing Consumption patterns for sustainable development. Presentation and discussion of selected EU supported research projects*, European Union, Brussels, Belgium.
- Vezzoli C., Vergragt P. et al., *Sustainable Household project.*
70. 6.2000: *Design (plus) research. Growing a knowledge*, International conference, Politecnico di Milano, Milan, Italy.
- Vezzoli C., *The building of interfaces translating research contributions of contiguous disciplines into a language readable by the design. One aspect of the design research explained trough some research experiences in the field of life cycle design.*
71. 6.2000: *Expert meeting on product service systems*, United Nation Environmental Programme (UNEP), Paris, France.
- Vezzoli C., *Designing a new product-service mix. Short-term strategy for sustainability.*
72. 11.1999: *The Eighth International Greening of Industry Network Conference, "Sustainability: Ways of Knowing/Ways of Acting"*, The University of North Carolina, Chapel Hill, North Carolina, USA.
- Vezzoli C., *Design orienting scenario and system innovation for sustainable clothing care.*
73. 11.1998: *The Seventh International Greening of Industry Network Conference "Partnership and Leadership Building alliances for a Sustainable Future"*, Rome, Italy.
- Vezzoli C., *Clothing care in the sustainable household.*
74. 10.1997: *New Horizon in Cleaner Production*, United Nation Environmental Program (UNEP), Lund, Sweden.
- Vezzoli C., Manzini E., *Cleaner Production as a new product-service mix. Short-term strategies for sustainability.*
75. 8.1997: *Levbar Design*, international seminar, Kopparberg, Sweden.
- Vezzoli C., *Environmental sustainability and product-service design strategies.*
76. 9.1996: *Environmental Reform: The Next Generation Project*, review workshop, Yale Centre for Environmental Law and Policy, Yale University, New Haven, USA.
- Vezzoli C., *The Next Generation Strategies.*
77. 3.1996: *Expert meeting on Eco Design manual*, United Nations Environmental Program - Industry and Environment (UNEP-IE), Paris, France.
- Vezzoli C., *Review of the "Promise manual".*
78. 11.1995: *European workshop on Ecoproducts*, European Foundation for the Improvements of Living and Working Conditions, Dublin, Ireland.
- Vezzoli C., *LCA software tools/interfaces and decision making for the early phases of the product development and innovation.*
79. 4.1995: *PREPARE*, international seminar, Milan, Italy.

Vezzoli C., Cappellini M., *Project, Product, Environment: two case studies.*

National (Italian) congress/seminar (21 and 9 promoted and coordinated)

1. 26.10.2017: *Eccellenze Sostenibili. CRIET Incontra 2017*, Università degli Studi di Milano-Bicocca, Milano.

Vezzoli C., (**invited speech**) *Design per la sostenibilità: le buone notizie (Design for sustainability: the good news!)*

2. 30.11.2017: *Design Summit 2017 – Economia Circolare: Come Partire*, Corriere Della Sera - Rcs, Milano.

Vezzoli C., (**invited speech**) *Design per la sostenibilità: qualche buona notizia (Design for sustainability: some good news)*

3. 2.7.2013: *Dalla semina allo sviluppo. I risultati e le prospettive del progetto di coesione sociale Punto e Linea*, National seminar, Acquario Civico, Milan.

Vezzoli C., *Spunti e proposte dalla Scuola of Design. La ricerca europea TANGO per la sostenibilità e la coesione sociale nella sua collaborazione con il progetto Punto e Linea (Input sans suggestions by te School of Design. The TANGO EU funded research.aiming at sustainability and social cohesion in its collaboration with the Punto e Linea project).*

4. 26.3.2013: promoter and coordinator of the seminar *Renewable and distributed energy generation for sustainable development in low income contexts*, Politecnico di Milano, Milan.

5. 12.2009: *Design Sostenibile Milano*, seminar, Provincia di Milano, Milan.

Vezzoli C., *Design per la sostenibilità: dalla teoria alla pratica (ora!) (Design for sustainability: form theory to practice (now!))*

6. 11.2007: *more E less. Nuovi Stili di vita e di Consumo*, patronised UNESCO, Dipartimento di Design, Facoltà di Architettura di Palermo, Palermo, Italy.

Vezzoli C., *Design di sistema per la sostenibilità: (ipotesi di) nuovi ambiti progettuali (system design for sustainability: (hypothesis of) new design areas).*

7. 7.2007: *Design, ricerca, prospettive. Seminario sul design e la ricerca nelle università italiane (Design, researches and perspectives. Seminar on design and research within the italian Universities)*, seminar promoted by the National conference of design faculty deans, and the PhD program of second University of Naples.

Vezzoli C., *Esperienze (e strategie) di ricerca dell'UdR Design e Innovazione di sistema per la Sostenibilità (DIS) (Experiences (and strategies) of research of the research unit Design and susstainaility).*

8. 6.2007: co-promoter and co-coordinator of the seminar *Design per la sostenibilità: dalla ricerca alla pratica (Design for sustainability: from research to practice)*, Rete di Requisiti Ambientali dei prodotti Industriali, Capodichino, Mostra d'oltre mare, Naples.

Vezzoli C. Opening statements.

9. 5.2007: *Costruire una strategia nazionale sulla IPP*, Ministero dell'ambiente, Auditorium Ministero Ambiente, Rome.

Vezzoli C., *Il ruolo delle Università nella promozione di una approccio di Life Cycle Design (the role of Universities in the promotion of a Life Cycle design approach).*

10. 12.2006: *Eco-progettazione e qualità ambientale. Il miglioramento delle prestazioni ambientali dei processi di produzione e dei Prodotti in un'ottica di filiera*, Lombardy Region – European fund for

regional development, Suzzara.

Vezzoli C., *Design per la sostenibilità ambientale e gestione eco-efficiente dei rifiuti (Design for environmental sustainability and eco-efficient waste management)*.

11. 7.2005: co-promoter and co-coordinator of the seminar *Formazione, sviluppo sostenibile e design: strategie e strumenti per la decade (Education, sustainable development and design: strategies and tools for the decade)*, Politecnico di Milano, patronised by the UNESCO Italian National Commission and by the Provincia di Milano.

12. 12.2005: co-promoter *Innovazione economia e competitività. Strategie e strumenti per la sostenibilità ambientale* (Economic innovation and competitiveness. Strategies and tools for the environmental sustainability), Premio all'innovazione amica dell'ambiente, Lombardy Region, Milan.

Vezzoli C., *Design per la sostenibilità ambientale (Design for environmental sustainability)*.

13. 3.2004: promoter of the seminar *Innovazione sociale sostenibile. Iniziative e progetti a confronto tra realtà milanesi e Università (Sustainable social innovation. Initiatives and projects between in the real context of Milan and in the universities)*, Unità di Ricerca Design e Innovazione per la Sostenibilità ambientale (DIS), laboratorio di Requisiti Ambientali dei Prodotti Industriali (RAPI.labo), Insieme nelle terre di mezzo, Forum consumo-critico, Milan.

Vezzoli C., *Bello sostenibile! (Beautiful and sustainable!)*

14. 10.2001: *Bellezza, Funzionalità ed Ecologia. Quali sensi per la conversione ecologica e la convivenza*. Undicesima fiera delle utopie concrete, Città di Castello (PG).

Vezzoli C., *Per una nuova cultura progettuale di prodotti e servizi più sostenibili (for a new design culture of products and services)*.

15. 7.2001: co-promoter of the seminar, *Innovazione amica dell'ambiente (environmentally friendly innovation)*, seminar, Politecnico di Milano e Legambiente, Milan.

Vezzoli C., *Ecoefficienza e prevenzione. Innovazioni di sistema per la sostenibilità (Ecoefficiency and prevention. System innovation for sustainability)*.

16. 3.2001: seminar *Innovare per l'ambiente: quali incentivi?*, centro congressi Cariplo, Istituto per l'ambiente, Kyoto Club, Milan.

Vezzoli C., *Strategie per la sostenibilità del Politecnico di Milano (Strategies for sustainability by the Politecnico di Milano)*.

17. 6.1999: seminar *I distretti industriali sostenibili*, seminar, Università "Federico II" di Napoli, Naples. Vezzoli C., Manzini E., *Strategie di breve termine per la sostenibilità: design strategico di un nuovo mix di prodotti e servizi (Short term strategies for sustainability: strategic design of a new mix of product and services)*.

18. 4.1998: seminar *Usa e progetta*, seminar, Pisa.

Vezzoli C., *La progettazione di prodotti sostenibili. I requisiti ambientali dei prodotti industriali (the design of sustainable products. The environmental requirements of industrial products)*.

19. 10.1998: promoter of the seminar, *Disegno industriale, questione ambientale e didattica (Industrial design, environmental issue and didactic)*, Agenzia per la Protezione dell'Ambiente e per i servizi Tecnici, Centro Interdipartimentale di Ricerca Innovazione per la Sostenibilità ambientale (CIR.IS), Politecnico di Milano, Milan.

Vezzoli C., *Introduzione al tema: gli strumenti per la didattica e i progetti del CIR.IS (Introduction to the theme: didactics tools and CIR.IS projects)*.

20. 10.1998: co-promoter of the seminar *Lo sviluppo di prodotti sostenibili (The development of sustainable products)*, Agenzia per la Protezione dell'Ambiente e per i servizi Tecnici, Camera dei deputati, Rome.

Vezzoli C., Manzini E., *Ruolo della formazione di una nuova generazione di progettisti (The role to play for a new generation of designers)*.

21. 10.1997: promoter of the seminar, *La progettazione di prodotti eco-efficienti. Il ruolo delle tecnologie informatiche (the design of eco-efficient products. The role of new technologies)*, SMAU Fiera di Milano, Milan.

Vezzoli C., *Life Cycle Design e informatica (Life Cycle Design and informatics)*.

LIST OF OTHER ACTIVITIES

Exhibitions curated by him (9):

1. 5.2013: itinerant exhibition *TANGO, Towards a New interGenerational Openess: Sustainable Services in Milan*, curated by Vezzoli C. and Bacchetti E. in collaboration with SiS (Social Enterprises System), Punto e Linea project, Tortona10 and Tortona Design Week, funded by AH-design European Union funded project, culture program, as one of the event of the Milano Design Week 2013.
2. 10.2010: *A world of sustainable ideas*, international exhibition curated by Vezzoli C. and Deeptha S., with the winners of the LeNS international Student Design Competition 2010, within the "Sustainability in design: now!" international conference, Bangalore, India, funded by the European Union, Asia Link Program.
3. 2005-2007: co-curator with Ismaele De Pas of the itinerant exhibition *DXS, video exhibition on sustainable scenarios*, in collaboration with Recapito Milanese, funded by Luceplan, Herman Miller and Valcucine.
Installations of the exhibition:
 - 4.2005: within the *Fa' la cosa giusta Fiera del consumo critico degli stili di vita sostenibili*, (fair of sustainable and critical consumption), Superstudiopiù, Milan
 - 4.2006: within the *Milano Design Week 2006* (Milano fuori salone), Milan.
 - 6.2006: within the exhibition *design in mostra*, mostra d'oltre mare, Naples.
 - 7.2006: within the exhibition *gira e respira*, Legambiente e Politecnico di Milano, Milan.
 - 8.2006: within the exhibition *7th Brazilian Conference on Design*, P&D, Curitiba, Brasil.
 - 4.2007: within the exhibition *Milano Design Week 2007* (Milano fuori salone), Milan.
4. 4.2007: curator of the exhibition *Creatività migrante. Progetti transculturali di innovazione per la sostenibilità (Migrant creativity. Transcultural projects of innovation for sustainability)*, within the *Fa' la cosa giusta. Fiera del consumo critico degli stili di vita sostenibili*, Fiera Milano city, Milan.
5. 3.2006: curator of the exhibition *Creatività migrante. Progetti di innovazione per la sostenibilità del mangiare in contesti emergenti (Migrant creativity. Projects of innovation for sustainability in emerging contexts)*, within the fair *Fa' la cosa giusta. Fiera del consumo critico degli stili di vita sostenibili*, Superstudiopiù, Milano.
6. 3.2005: co-curator with Anna Meroni of the exhibition *Comunità creative. Progetti di soluzioni sostenibili per Milano*, within the fair *Fa' la cosa giusta. Fiera del consumo critico degli stili di vita sostenibili*, Superstudiopiù, Milan.
7. 3.2005: collaboration to the design of an environmentally sustainable exhibition of the first edition of the fair *Fa' la cosa giusta. Fiera del consumo critico degli stili di vita sostenibili*, Superstudiopiù, Milan, with Recapito Milanese and Insieme Nelle Terre di Mezzo.
8. 3.2004: curator of the exhibition *Un mondo di idee sostenibili*, within the fair *Fa la cosa giusta. Fiera del consumo critico degli stili di vita sostenibili*, with Insieme nelle terre di mezzo and Forum consumo critico, Milan.

9. 2003: curator of the exhibition *Scenari di sostenibilità domestica (Sustainable domestic scenario)*, within the fair *Abitare il tempo fair*, Verona, Italy.

Promotion of awards/design competition (10):

10. 2016: co-curation with Emanuela Delfino and Lilac Osanjo of *The LeNSes design competition 2016. Sustainable Energy for All*, an international design competition and award for young designers and design students addressing key environmental and social issues, funded by the European Union, Edulink program.
11. 2010: co-curation with Fabrizio Ceschin, Tatu Marttila and Cindy Kohtala of *The LeNS design competition 2010. A world of sustainable ideas*, international design competition and award for young designers and design students addressing key environmental and social issues for low and/or middle-income community in an African context, funded by the European Union, AsiaLink program.
12. 2008: responsabile for the Politecnico di Milano of the *Premio all'innovazione amica dell'ambiente. Edizione 2008: Il bello del clima. Efficienza energetica, eco edilizia e acquisti verdi (Environmentally friendly innovation award. 2008 edition)*, Legambiente, Lombardy Region, Politecnico di Milano and Bocconi University.
13. 2007: responsabile for the Politecnico di Milano of the *Premio all'innovazione amica dell'ambiente. Edizione 2007: Efficienza per il clima. Verso un'economia della qualità, (Environmentally friendly innovation award. 2007 edition)*, Legambiente, Lombardy Region, Politecnico di Milano and Bocconi University.
14. 2006: responsabile for the Politecnico di Milano of the *Premio all'innovazione amica dell'ambiente. Edizione 2006: Progettare. Nuove soluzioni per una nuova qualità del vivere, (Environmentally friendly innovation award. 2006 edition)*, Legambiente, Lombardy Region, Politecnico di Milano and Bocconi University.
15. 2005: responsabile for the Politecnico di Milano of the *Premio all'innovazione amica dell'ambiente. Edizione 2005: eco-efficienza nei consumi ed eco-design, (Environmentally friendly innovation award. 2005 edition)*, Legambiente, Lombardy Region, Politecnico di Milano and Bocconi University.
16. 2004: responsabile for the Politecnico di Milano of the *Premio all'innovazione amica dell'ambiente. Edizione 2004: Muoversi vivere e lavorare (Environmentally friendly innovation award. 2008 edition)*, Legambiente, Lombardy Region, Politecnico di Milano and Bocconi University.
17. 2003: responsabile for the Politecnico di Milano and jury member of the *Premio all'innovazione amica dell'ambiente. Edizione 2003: Energia e mobilità, (Environmentally friendly innovation award. 2008 edition)*, Legambiente, Lombardy Region, Politecnico di Milano and Bocconi University.
18. 2002: responsabile per il Politecnico di Milano e membro della giuria del *Premio all'innovazione amica dell'ambiente. Edizione 2002: produrre di più con meno o produrre meglio con meno? (Environmentally friendly innovation award. 2008 edition)*, Legambiente, Politecnico di Milano and Bocconi University.

19. 2001: responsabile per il Politecnico di Milano e membro della giuria del *Premio all'innovazione amica dell'ambiente. Edizione 2001: l'energia, (Environmentally friendly innovation award. 2008 edition)*, Legambiente and Politecnico di Milano University.

Other activities:

1. 4.2006 – today: co-coordinator with Ceschin F. (Brunel University, London) of *SunRide, open project, for sustainable mobility in low and middle income contexts*. It is based on an open and creative common licensed design of a four-wheel hybrid solar/electric/human powered vehicle by Fabrizio Ceschin while he was member of the DIS research unit at Politecnico di Milano. A prototype was realized by the Research Unit Design and System Innovation for Sustainability of Politecnico di Milano in collaboration with IPSIA Ferrari of Maranello, and funded a pool of companies. With the involvement of some degree thesis students, the project has been redesigned few times in collaboration with local stakeholders in Burkina Faso, Zambia, South Africa, West Bengal, Brasil and Senegal. The project in South Africa resulted in a new locally manufactured prototype tested for the transportation of disabled people and driven by marginalized one
2. 9.2006: participation to the *Progetto Levante, traversata Roma-Maranello per veicoli a zero emissioni* (Levante project, traversata Rome-Maranello for zero emission vehicle, with the prototype of MULO/SUNRIDE, promoted by the Municipality of Maranello, Nakanihon Automotive Collage (Japan), IPSIA Ferrari di Maranello and DIS-INDACO Politecnico di Milano.
3. 2005: co-promotor of the *Distretto di Economia Solidale (DES) di Milano (Solidarity Economy district of Milan)*, together with associations, companies, cooperatives, local governmental institution and group of people.

LIST OF PUBLICATIONS

Books in foreign languages (non-Italian): 13 as author (8 of which are translations of work originally published in Italian or English).

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2. Vezzoli, C., Ceschin, F., Osanjo, L., M'Rithaa, M.K., Moalosi, R., Nakazibwe, V., Diehl, J.C. (2018) *Designing Sustainable Energy for All. Sustainable Product-Service System Design Applied to Distributed Renewable Energy*. London: Springer. ISBN 978-3-319-70223-0, DOI 10.1007/978-3-319-70223-0, pp. 1-202 **In Scopus**.
3. Vezzoli C. (2018) *Design for environmental sustainability. Life Cycle Design of Products*. London: Springer. ISBN 978-1-84800-162-6, pp. 51-282 (di 1-303).
[translation of Vezzoli C., *Design per la sostenibilità ambientale. Progettare il ciclo di vita dei prodotti*. Bologna: II edizione. Zanichelli editore]. **In Scopus**.
4. Vezzoli C., Kohtala C., Srinivasan A., Xin L. (2017) 可持续产品服务系统设计(Product-Service System Design for Sustainability), patronised by the united nation (DESD). London: Greenleaf/Routledge, hardback ISBN: 9781783535767, on-line ISBN: 9781783535767.
[translation of Vezzoli C., Kohtala C., Srinivasan A., (2014) *Product-Service System Design for Sustainability*, patronised by the United Nation (DESD), London: Greenleaf/Routledge]. **In WoS**.
5. Vezzoli C., Manzini E. (2016) *Diseño de productos ambientalmente sustentables*, patronised United Nation(DESD), Mexico City: Editorial Designio, ISBN 13:9789685852 487, pp. 1-324
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6. Vezzoli C., Kohtala C., Srinivasan A., (2014) *Product-Service System Design for Sustainability*, patronised by the United Nation (DESD). London: Greenleaf/Routledge, ISBN 978-1-906093-67-9. pp. 1-75, 87-126, 137-171, 179-195, 200-217, 277-293 (di pp. 1-504). **In WoS**.
7. Vezzoli C. (2010) *Design de sistemas para a sustentabilidade. Teoria, metodos e ferramentas para o design sustentavel de "sistemas de satisfacao"*. Patronised United Nation(DESD). Salvador (Brasile): Editoria da Universidade Federal da Bahia, SBN 978-85-232-0722-9
[translation of Vezzoli C. 2010. *System design for sustainability. Theory, methods and tools for a sustainable "satisfaction-system" design*. II edition. Patronised by United Nation (DESD). Rimini: Maggioli editore, ISBN 88 387 4440 8].
8. Vezzoli C. (2010) *System design for sustainability. Theory, methods and tools for a sustainable "satisfaction-system" design*. II edition. Patronised United Nation (DESD). Rimini: Maggioli editore, ISBN 88 387 4440 8, pp. 1-340 (prima edizione 2007, ISBN 9 788838 741005, pp. 1-282: rivista e ampliata in maniera significativa: 20% di pagine in più).
9. Vezzoli C., Manzini E. (2010) 环境可持续设计(Design per la sostenibilità ambientale), patronised by United Nation (DESD), Beijing: National Defence Industry Press, ISBN 9787118070613, pp. 1-234

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12. Vezzoli C., Manzini E. (2002) *O desenvolvimento de produtos sustentáveis. Os requisitos ambientais dos produtos industriais*. San Paolo, Brasile: EDUSP, ISBN 85-314-0731-1. pp. 89-345 (of pp. 1-366).

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13. Vezzoli C. et al. (2002) *Product-Service Systems and Sustainability. Opportunities for sustainable solutions*. Paris: United Nations Environment Programme, ISBN 92-807-2206-9, pp. 5-10, 15, 16, 18-28 (of pp. 1-32).

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2. Vezzoli C., Ceschin F., Cortesi, S. (2009) *Metodi e strumenti per il Life Cycle Design. Come progettare prodotti a basso impatto ambientale*. Rimini: Maggioli Editore. ISBN: 978-88-387-4365-7, pp. 7-32, 71-123, 147-156, 177-192 (di 1-239).

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2. Vezzoli, C. (2013) *System Design for Sustainability. The challenge of behaviour change*. In Crocker R. e Lehmann S. (edited by) *Motivating Change: Values, Behaviour, Consumption and Sustainable*

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3. Vezzoli, C. Aprea A., Jeifeng L., Linghao Z. (2013) *Environmentally sustainable exhibition for design schools*. In Niinimäki K., Kallio-Tavin M. (edited by) *Dialogues for sustainable design and art pedagogy*. Helsinki: Aalto ARTS Books, ISBN 978-952-60-5059-1. pp. 98-103.
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9. Manzini, E., Vezzoli, C., Ceschin F., & Cantù, D., (2010) *Africa, Ideas for a sustainable future. Leapfrog Strategies: Design for social and system innovation for sustainability in South Africa, Kenya, Botswana, Ghana*, in A. Dell'Acqua Bellavitis, L. Collina, M. Imperadori & A. Gandelli, ed. *The international gateway. Projects and partnerships*, Milano: Edizioni Olivares. ISBN 9788890422324 pp. 122, 123, 124 (di 119-125).
10. Vezzoli C., Tischner U., Rayan C., (2009) *Product- Service Systems*. In Crul M., Diehl J. C. (edited by), *Design for Sustainability (D4S): A Step-By-Step Approach. Modules*. Crul M., Diehl J. C. (edited by), pubblicato da United Nations Environment Program (UNEP), ISBN: 92-807-2711-7. pp. 33-75.
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12. Vezzoli C., Ceschin F. (2009) *Sustainable Scenarios for Upstream Waste Reduction in the Food Chain*. In Hülsen and Ohnesorge, *Food Science Research and Technology*. New York: Nova Publishers. ISBN: 978-1-60741-848-1. pp. 68-72, 83-87 e 100-107 (di 65-110).
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14. Vezzoli C., Manzini E. (2008) *Review: design for sustainable consumption and production systems*. In Vezzoli C., Tukker A., Charter M., Stø E., Andersen M. M. (edited by). *System Innovation for*

Sustainability 1. Perspectives on Radical Changes to Sustainable Consumption and Production. Sheffield, UK: Greenleaf Publishing, ISBN 978-1-906093-03-7. pp. 156-168 (di pp. 152-174).

15. Vezzoli C., Chaves L. (2007) *Design e development durable dans le pays emergentes.* In: Rubini C. (edited by). *Azimuts 28.* Saint-Etienne: Cité du design ed., ISBN 978-2-912808-02-2, pp. 88, 89, 92, 93 (di 87-93).

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17. Vezzoli C. (2005) *"Prioritise sustainability guidelines (level 1: scenario)", "Visualise sustainability aspects of PSS scenario", "Prioritise sustainability guidelines (level 2: PSS idea)", "Visualise sustainability aspects of PSS idea", "Visualise sustainability aspects of developed PSS".* In Vezzoli C., van Halen C., Wimmer R, (edited by). *Methodology for Product Service System. How to develop clean, clever and competitive strategies in companies.* Assen, Olanda: Van Gorcum, ISBN 90-232-4143-6, pp. 114-116, 125-126, 129-130, 141-142, 163-165.

18. Vezzoli C. (2000) *The Clothing Care Function.* In Final Report, Sushouse Project. Delft, Olanda: TBM, Delft University of Technology, ISBN 90-5638-060-5, pp. 1-66.

19. Vezzoli C. (2000) *Clothing Care.* In Young C. W. (edited by). *Strategies Towards the Sustainable Household (SusHouse) Project: Draft Design Orienting Scenarios (DOS),* Manchester, UK: Copyright CROMTEC, Manchester School of Management UMIST, ISBN 1 86115 080 6, pp. 7-9.

20. Vezzoli C., Manzini E. (1999) *Cleaner production as a new product-service mix: short term strategy for Sustainability.* In Meima R. (edited by). *Cleaner Production. The search for New horizons.* Lundt: IIIIEE Lundt University, ISSN 1401-0798, pp.55-62.

21. Vezzoli C. (1998) *Sustainability and Innovation.* In Evolution Part II. Delft: Society of Industrial Design Engineering, Technical University of Delft, pp. 1-7.

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1. Vezzoli C., Bacchetti E. (2015). *Scenari progettuali di sostenibilità elettrodomestica,* in Cucine & Ultracorpi, a cura Celant G., Annichiarico S., Verona: Electa. (ENG) ISBN 978-88-918-0358-0. (ITA) ISBN 978-88-918-0357-3. pp. 121-129.

2. Vezzoli, C. (2012) *Progettare per la sostenibilità.* In Terzi S. (edited by), *Progettare i prodotti del futuro. Metodi approcci e strumenti per competere.* Milano: Edizioni Este. ISBN 978-88-98053- 00-1. pp. 98-109.

3. Vezzoli C., Ceschin F. (2009) *Il design di sistema per la sostenibilità. Nuovi ambiti operativi e nuovi metodi e strumenti a supporto dei designer.* In Catania A. (edited by), *More E less/Nuovi stili di vita e di consumo.* Palermo: Dario Flaccovio Editore. ISBN 978-88-7758-926-2, pp. 59-61 (di pp. 59-64).

4. Vezzoli C., Cortesi S. (2008) *Life Cycle Design. Un approccio operativo.* In: Ferrara M., Lucibello S. (edited by). *Design follow materials.* Firenze: Alinea editrice, ISBN 978-88-6055-363-8. pp. 74, 75- 77 (di pp. 74-77).

5. Vezzoli C., Manzini E. (2007) *Un'abitabilità sostenibile*. In: Blasi C., Padovano G., Nebuloni A. (edited by). *Sole vento acqua vegetazione e tecnologie avanzate. Matrici di un nuovo approccio progettuale al territorio architettura e design strategico*. Roma: Cangemi editore, ISBN 978-88- 492-1322-5, pp. 18-20, 22-24 (di pp. 16-24).
6. Vezzoli C. (2007) *Design per la sostenibilità: una disciplina (sempre più) articolata*. In: Vezzoli C., Tamborrini P. (edited by). *Design per la sostenibilità. Strumenti e strategie per la decade "Educazione per lo sviluppo sostenibile, United Nation(2005-2014)"*. Patrocinato da United Nation(DES), Commissione Nazionale UNESCO e Provincia di Milano. Milano: LlibreriaClup editore. ISBN 978-88-7090-949-4. pp. 31-45.
7. Vezzoli C. (2006) *Lo sviluppo sostenibile*. In Rossi F., Salvi F. (edited by) *Manuale di ingegneria civile e ambientale*. Bologna: Zanichelli, ISBN 978-8808-0-7605-2. pp. 3-19.
8. Vezzoli C., Proserpio C. (2004) *Il design degli elettrodomestici per la sostenibilità*. In Rampino L. (edited by). *Sapere, Immaginare, Fare. Il Design d'innovazione per l'elettrodomestico*. Milano: Edizioni Polidesign, ISBN 88-87981-62-0. pp. 31, 32, 33, 34, 35, 36.
9. Vezzoli C. (2003) *Design e sostenibilità*. In: Manzini E., Bertola P. (edited by). *Design Multiverso. Appunti di fenomenologia del Design*. Milano: Edizioni Polidesign, ISBN 88-87981-45-0. pp. 85- 100.
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Carlo Vezzoli



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