

HASSAN AHMED, KEVIN AMENDT, MARGHERITA AUTORINO,
ANNALISA AZZOLA, BEATRICE AZZOLA, GINO BALDI,
MATTIA BALDINI, NADIA BERTOLINO, FEDERICO BROGGINI,
THOMAS CABAI, CHIARA CARAVELLO, GIULIA CAZZANIGA,
AMINA CHOUAIRI, FELICE CIMATTI, PIETRO CONSOLANDI,
CASSANDRA COZZA, SASKIA DE WIT, DAMIANO DI MELE,
SARA FAVARGIOTTI, MARCO FERRARI, ANDREA FOPPIANI,
HERMANO LUZ RODRIGUES, INA MACAIONE,
VALERIO MASSARO, DAVIDE MONTANARI, LAURA MUCCIOLO,
SILVIA MUNDULA, VALENTINA NOCE, RITA OCCHIUTO,
ANDREA OLDANI, IRENE PANCRAZI, MARIANA PEREIRA
GUIMARÃES, MICHELANGELO PIVETTA, MICHELE
PORCELLUZZI, CHIARA PRADEL, SARA PROTASONI,
ALESSANDRO RAFFA, GIACOMO RAZZOLINI, ALESSANDRO
ROCCA, KEVIN SANTUS, SARA ANNA SAPONE, GERARDO
SEMPREBON, GIULIA SETTI, CHIARA TOSCANI,
JO VAN DEN BERGHE, FRANCESCA ZANOTTO

TERRARIUM. EARTH DESIGN:
ECOLOGY, ARCHITECTURE
AND LANDSCAPE

A CURA DI
SILVIA MUNDULA,
KEVIN SANTUS,
SARA ANNA SAPONE

✳E
M
I
M
E
S
I
S

TERRARIUM. EARTH DESIGN: ECOLOGY, ARCHITECTURE AND LANDSCAPE

A CURA DI
SILVIA MUNDULA, KEVIN SANTUS,
SARA ANNA SAPONE



Mimesis



TERRARIUM. EARTH DESIGN: ECOLOGY,
ARCHITECTURE AND LANDSCAPE
edited by
Silvia Mundula, Kevin Santus, Sara Anna Sapone

Terrarium collects research and reflections on the relationship between space, soil, vegetation and the biotic community, linked through the metaphor of the terrarium. The book is curated by a research group from the Ph.D. program "Architectural Urban Interior Design", coordinated by Alessandro Rocca (Department of Architecture and Urban Studies at Politecnico di Milano), involved in the PRIN Sylva by the IUAV research unit.

PUBLISHER
Mimesis Edizioni
Piazza Don Enrico Mapelli, 75
20099 Sesto San Giovanni
Milano – Italy
www.mimesisedizioni.it

FIRST EDITION
September 2024

ISBN
9791222311593

DOI
10.7413/1234-1234032

PRINTING
Printed in September 2024
by Digital Team – Fano (PU)

FONTS
Union, Radim Peško, 2006
Jjannon, François Rappo, 2019

GRAPHIC LAYOUT
bruno, Venezia

MAKING-UP
Silvia Mundula, Kevin Santus,
Sara Anna Sapone

© 2024 Mimesis Edizioni
Images, graphics and texts
© The Authors

This volume was realised with
Funds Mur-Prin 2017 (D.D. 3728/2017).
The book is also available in open access at
www.iuav.it/prin-sylva-prodotti.

Each volume in the series is reviewed by
referees chosen from members of the
Scientific Committee.

For the images contained in this volume the
authors remain at the disposal of any rights
holders that could not be traced. The rights of
translation, electronic storage, reproduction
and adaptation, even partial, by any means, are
reserved for all countries.

Unless otherwise stated, all translations are by
the authors.

COLLANA SYLVA
Project of the Research Unit of Università Iuav
di Venezia within the PRIN «SYLVA. Rethink the
sylvan. Towards a new alliance between biology
and artificiality, nature and society, wilderness
and humanity». Call 2017, SH2. Research Units:
Università degli Studi di Roma Tre (coordinati-
on), Università Iuav di Venezia, Università
degli Studi di Genova, Università degli Studi di
Padova.

DIRECTED BY
Sara Marini
Università Iuav di Venezia

SCIENTIFIC COMMITTEE
Piotr Barbarewicz
Università degli Studi di Udine
Alberto Bertagna
Università degli Studi di Genova
Malvina Borgherini
Università Iuav di Venezia
Marco Brocca
Università del Salento
Fulvio Cortese
Università degli Studi di Trento
Esther Giani
Università Iuav di Venezia
Massimiliano Giberti
Università degli Studi di Genova
Stamatina Kousidi
Politecnico di Milano
Luigi Latini
Università Iuav di Venezia
Jacopo Leveratto
Politecnico di Milano
Valerio Paolo Mosco
Università Iuav di Venezia
Giuseppe Piperata
Università Iuav di Venezia
Alessandro Rocca
Politecnico di Milano
Eduardo Roig
Universidad Politécnica de Madrid
Micol Roversi Monaco
Università Iuav di Venezia
Gabriele Torelli
Università Iuav di Venezia
Laura Zampieri
Università Iuav di Venezia
Leonardo Zanetti
Alma Mater Studiorum Università di Bologna

TERRARIUM. EARTH DESIGN: ECOLOGY, ARCHITECTURE AND LANDSCAPE

10—19 TERRARIUM AS A DESIGN METAPHOR

ISLANDS

22—35 AN OCULUS INTO THE GROUND.
MOTHERHOUSE AND PRESENCING
HOMESICKNESS BY DRAWING
JO VAN DEN BERGHE

36—53 AFFECTIVE ENCOUNTERS:
NATURE CLOSE TO THE SKIN
SASKIA DE WIT

54—69 CHINESE GARDEN.
ALLEGORICAL ECOLOGIES IN AN
URBANIZING WORLD
GERARDO SEMPREBON

70—83 LANDSCAPE ARCHIVE COLLECTIONS.
DESIGN THE CONTEMPORARY
TERRARIUM
GIULIA SETTI

84—95 TERRARIA. AN EXPERIMENTAL
GRAMMAR OF SOIL CONTAMINATIONS
MARGHERITA AUTORINO

96—111 DEBRIS TERRARIUM.
BERLIN AND ITS VOID ISLANDS
SARA ANNA SAPONE

MACHINES

114—127 TRENCHES, WELLS, AND BOULLÉE'S
PYRAMIDS
ALESSANDRO ROCCA

128—137 CABIN FEVER
VALENTINA NOCE

138—145 FOUNDATIONS. ROOTS OF AN
ECOSYSTEM
GINO BALDI

146—161 THE LEGACY OF THE ITALIAN
NATURALISTIC HYDRAULICS SCHOOL
CHIARA TOSCANI

162—171 ACQUA VIVA E CORRENTE:
INSIGHTS FROM RENAISSANCE
FONTANIERI MASTERY
MARIANA PEREIRA GUIMARÃES,
HERMANO LUZ RODRIGUES

172—187 THE PALM HOUSE. A PROJECT OF
DOMESTICATION
SILVIA MUNDULA

188—203 VEGETATION AS ARCHITECTURAL
FORMS. SITE'S IRONY AND DESIGN
PERSPECTIVES.
KEVIN SANTUS

BIOMES

- 206—223 THE PHILOSOPHICAL CITY.
THE BECOMING-WORLD OF THE
CITTÀ VECCHIA OF COSENZA
FELICE CIMATTI
- 224—239 FORT ECOLOGIES AND THE
PLANETARY TERRARIUM
MARCO FERRARI, SARA FAVARGIOTTI
- 240—249 A NEED FOR CHANGE.
VIENNA, A PERFORMATIVE BEAUTY
CASSANDRA COZZA
- 250—257 STOLEN LAND.
DISAPPEARING ISLANDS AND THE
MALDIVIAN PARADOX
BEATRICE AZZOLA, ANNALISA AZZOLA,
IRENE PANCRAZI, HASSAN AHMED
- 258—269 ALLEANZE. A TERRARIUM AS AN
UNFINISHED MONUMENT
MICHELANGELO PIVETTA,
GIACOMO RAZZOLINI,
MATTIA BALDINI,
LAURA MUCCIOLO
- 270—285 IN VITRO LANDSCAPES
SARA PROTASONI

WILDNESS

- 288—297 EARTHLY EMERGENCES:
SPONTANEOUS ENTITIES
DAMIANO DI MELE
- 298—307 PILING, MENDING, REASSEMBLING:
AESTHETIC AND POETIC OF THE
SUBALTERN LANDSCAPES
NADIA BERTOLINO
- 308—315 AN ASPHALT TERRARIUM.
THE HIPPODROME OF TOR DI VALLE
FEDERICO BROGGINI
- 316—329 INFRASTRUCTURE AS A TERRARIUM.
BETWEEN DISCOVERY AND RE-
DISCOVERY OF THE INVOLUNTARY
ANDREA OLDANI
- 330—337 INFRASTRUCTURE OF THE
UNEXPECTED. CORVETTO FLYOVER AS
A TRANSGRESSIVE TERRARIUM
ANDREA FOPPIANI,
DAVIDE MONTANARI
- 338—345 POST-INDUSTRIAL SYNANTHROPIA.
SPONTANEOUS VEGETATION AND
ARCHITECTURAL DECAY
THOMAS CABAI,
MICHELE PORCELLUZZI
- 346—351 SUPER TOXIC TERRARIUMS.
SPERIMENTAL SCENARIOS FOR TOXIC
LANDSCAPES
CHIARA PRADEL

METAMORPHOSIS

- 354—365 LAGUNARIUM.
AMONG THE RUINS OF VALLI DA PESCA
AMINA CHOUAIRI,
PIETRO CONSOLANDI
- 366—381 RIVER IMAGINARIES.
THE RENATURATION OF THE PO
REGION
GIULIA CAZZANIGA
- 382—391 FUCINO: FROM WATER TO LAND
VALERIO MASSARO
- 392—403 RECLAIMED LANDSCAPES. THE
PONTINE MARSHES AS A DESIGN
PROTOTYPE FOR A NEW ALLIANCE
ALESSANDRO RAFFA, INA MACAIONE
- 404—413 GREEN-COVERED:
THE SINT-PIETERSBERG AS A
TERRARIUM OF CULTURES
KEVIN AMENDT, CHIARA CARAVELLO,
RITA OCCHIUTO
- 414—425 ABOVE THE ROOF. DESIGNING
SECOND CHANCES
FRANCESCA ZANOTTO
- 426—440 BIBLIOGRAPHIES
- 441—447 BIOGRAPHIES

GREEN-COVERED: THE SINT-PIETERSBERG AS A TERRARIUM OF CULTURES

KEVIN AMENDT,
CHIARA CARAVELLO,
RITA OCCHIUTO

The Sint-Pietersberg[†] is a hill stretching in continuity between Belgium and the Netherlands and is here adopted as an experimental *terrarium*. In the center of a perennial conflict of interests between nature conservation and industrial exploitation for the extraction of limestone blocks and powder, the recent history[‡] of the Sint-Pietersberg is an intense succession of actions and reactions between humans and nature. Here, after gradual withdrawal of limestone quarrying operations, a process of re-naturalization began, either from nature itself or through the artificialization of greenery. Progressively, exceptional natural beauty and biodiversity regained their place both in the surface and underground spaces, forming a unique lush landscape (Occhiuto 2021).

The text aims to compare different ways for nature to regain its place in man-made landscapes resulting from invasive underground resource exploitation. The focus is on the interactions in re-naturalization processes between phenomena of ‘spontaneous nature,’ freely formed and limitedly controlled, and phenomena of ‘induced nature,’ imposed and highly controlled. Focusing on aesthetic and cultural values, the text questions the significance of re-naturalization actions: is it enough to compose ‘green landscapes’ as desirable objects to be exploited to make the Earth more profitable? Or can considering ‘natural systemic conditions’ suggest other ways of intervening and caring for places, taking inspiration from what nature is already rebuilding and reconfiguring?[‡]

THE VERLOREN VALLEI AND THE ENCI-QUARRY IN THE SINT-PIETERSBERG

The limestone extraction processes can take place underground or on the surface, altering the landscape irreversibly albeit leading to different environmental and aesthetical impacts. In both cases presented in this text, open-cut quarrying began in the interbellum (SAHV 1985; Amendt 2010), during which the original above-ground landscape is literally removed and underground galleries from previous extraction phases disappear.[‡]

The first case is the *Verloren Vallei*[‡], which can be defined as a small-scale open-cut quarry[‡] where the extraction processes came to an end within a few years (SAHV 1985, p. 63). The re-naturalization process has been taking place since the industrial use was ceased about eighty-five years ago, defining a spontaneous natural environment. The second case is the ENCI-quarry, which unmistakably manifests its ‘operational landscape character’ (Rosier 2022, p. 18) with the violent impact of its size,[†] given by extraction operations protracted over almost a century.

Although the extractive process has only recently stopped, it was already from around 1939 (Nieste 1996, p. 125) that the redevelopment of the surrounding affected by quarrying began, according to man-imposed and highly controlled natural development.

The processes of the quarry's re-appropriation by nature brought to life precious landscapes, thicker and lusher throughout the seasons, and visibly enriched from year to year. The presence of different species of flora and fauna, each with its own specific sound, rhythm, and frequency, lends an intense and unique flavor to every step in these landscapes. The character and materiality of the soil, the lightness and porosity of the vegetal mantle, the play of light and shadow, filters and determines the development of the space all around. In this impactful overall picture, only the attentive observer can grasp the complex combination of particular units characterizing the post-extractive landscape. Indeed, if in the case of the ENCI-quarry the re-naturalization processes are apparently spontaneous, on a closer look the landscape is to a large extent the result of management operations that have forced nature into overbearing development guides.

If, on the one hand, spontaneous re-naturalization is dominated by a continuum of ongoing evolutionary processes (Fromonot & Desvigne 2020), on the other hand, greening is subject to man-driven functional and aesthetic artifice (Lassus 1981), where man-desired natural values are imposed and “nature cannot remain itself” (Morton 2007, p. 81). In this regard, a distinction shall be made between ‘system’ and ‘standard’ possibilities for cultivating these soil and subsoil samples, setting the ground at the center of man-nature relationship (EC 2000).

POST-EXTRACTIVE LANDSCAPES

In 1938, in his extensive book on the Sint-Pietersberg, van Schaik talks about several entrances of underground quarries in the midst of the forest, still visible “despite [open-cut] limestone exploitation has been eating through the most beautiful part of the forest for a few years”. The text refers to the Verloren Vallei, where the open-cut exploitation revealed to the surface the full height and depth of the underground galleries, creating “a particularly beautiful effect amid the green frame” (van Schaik 1983, p. 102). This area with exposed underground passages is characterized by a specific kind of landscape defined in French as *erablaies-tillaies à scolopendre*, outlined by van Schaik as “a particularly beautiful piece of (cultural) landscape” (van Schaik 1983, p. 412).



Les grandes fenêtres in the Verloren Vallei.

The open-cut exploitation revealed to the surface the full height and depth of the underground galleries. Photo by Kevin Amendt, 2021.

Artificial lake and beach created during the first phase of re-naturalization of the ENCI-quarry. The affluence was so high that the project turned out to be unsustainable. Today, the site is no longer accessible. Photo by Kevin Amendt, 2017.



In this regard, cultural value is often attributed to the new vegetation covering the land, also referring to the land remodeled by English landscape gardeners in the 17th century (Repton 1800). Here, the cultural values are the experiences that people can still gain by walking through the site, without doing anything more: just to connect with the different states of the land, which is always changing.

While in the *Verloren Vallei* we can observe nature reclaiming its space wildly, partly precluding access to man, the decommissioning of the ENCI-quarry is accompanied by a man-driven transformation process, where exploitation of the territory has been 'green-covered.'

Indeed, if in the ENCI quarry, a vegetal colonization phenomenon known as 'primary succession' can be observed, we know that the results of this process are not entirely natural. In fact, the transformation of the slope into a chalk grassland was encouraged by its covering with limestone and an overlay of loss. Furthermore, "grass clippings from other chalk grasslands were laid out shortly after placement" (Majoor et al. 2020, p. 320). In addition to this, given the artificial ground level where a part of the area, a permanent mechanical water pumping system must be operated (Majoor et al. 2020, p. 321). Thus, the development process of this natural environment is entirely driven by man.

In this sense, the *Plan of transformatie* written in 2009 by the *Stichting Ontwikkelingsmaatschappij ENCI*, can be seen as the design concept for the composition of a *terrarium* defined within the former quarry area.

CONCLUSION

For both the underground and the surface landscape generated by centuries-old limestone quarrying in the Sint-Pietersberg, we may conclude that "a cultural product with a peculiar, almost perfect, aesthetic balance has been created unconsciously, unintentionally answering to the same laws that exist in nature." (Diederer 1982, p. 7).

This observation strongly connects our brief study to the principles of the European Landscape Convention (EC 2000), which calls for attention to the perception that is set between people and places. Hence, new relationships can slowly emerge from the care given to perception (not sight, not function). For this reason, the vegetation cover cannot be reduced to a technical layer cladding the surfaces exposed by previous operations. And it is not to be considered as a strategy of embellishment

either, taking care of the visual aspect of the place, nor their economic values.

The *terrarium* thus acquires the meaning of giving time to accompany natural phenomena in their development, but also allowing the population to re-tame the places to give them a cultural meaning, a sense of belonging associated with man-made landscapes' evolution in time.

“Pyramids” in the ENCI-quarry.

The decommissioning of the ENCI-quarry is accompanied by a man-driven transformation process, where a specific and symbolic landscape is pre-defined. Photo by Chiara Caravello, 2023.



413

⌘ 'Sint-Pietersberg' in Dutch or 'Montagne Saint-Pierre' in French.

⌘ Exploitation of the Sint-Pietersberg for the underground extraction of limestone began from the 13th century until the beginning of the 20th century, when open-cut quarries took hold and continued to the present day. Cfr. K. Amendt, *De afgraving van de Sint Pietersberg en een ingangspartij zuidelijk van Lichtenberg*, in “SOK Mededelingen”, 53, July 2010, pp. 22–47; J. Silvertant, *Caestert: een mijnbouwarcheologische erfgoed-site*, Scientific report of the Institute Europa Subterranea 3, Institute Europa Subterranea, Valkenburg aan de Geul 2010; D.C. van Schaik, *DE SINT PIETERSBERG. Met een aanvullend gedeelte van 1938-1983*, EF & EF b.v., Thorn 1983.

⌘ The Sint-Pietersberg is an area that lends itself to experimentation with different approaches, from conservative (respecting long-term natural processes) to interventionist (altering the natural rhythm to reach short-term goals). Facing these two positions, a living *terrarium* emerges as an experimenting field for landscape research, based on iterative in-situ actions.

⌘ While the shape of the underground galleries is directly determined by the mining technique employed and it remains stable over time due to the constant environmental conditions in the underground (excluding exceptional phenomena such as collapse or flooding of portions of the galleries), the spatial configuration of the landscape on the surface is determined both by the drastic marks left by open-cut extraction and by variable environmental conditions. In addition, the increased visibility of these landscapes draws higher public attention and a consequent greater need for redevelopment to ‘heal the open-cut wound’ and ‘return Earth to the people’.

⌘ The Dutch name ‘Verloren Vallei’ can literally be translated in English as ‘Lost Valley’.

⌘ Approx. 200 x 40 meter. Data according to measurements taken by the author on the Geoportaal of Vlaanderen - Digitaal Hoogtemodel Vlaanderen II, multidirectionale hillshade 0,25 m. Available online at: <https://www.geopunt.be/> [accessed 7 August 2023].

* Approx. 1800 x 1300 meter. Data according to measurements taken by the author on the Geoportaal of Vlaanderen - Digitaal Hoogtemodel Vlaanderen II, multidirectionale hillshade 0,25 m. Available online at: <https://www.geopunt.be/> [accessed 7 August 2023].

⌘ The open-cut extraction stopped in 2018 (Majoer et al. 2020, p. 303).

⌘ Van Schaik mentions in particular the entrance of Caestert, one of the most ancient underground quarries in the area along the border between Belgium and the Netherlands.

⌘ Author’s translation.

⌘ Author’s translation.

GREEN-COVERED

⌘ Among others, the largest and most majestic entrances to be seen today in the Verloren Vallei are known in French as *les grandes fenêtres* (literally: the big windows), probably because of both the fact that originally they were not entrances and due to their position halfway up the limestone outcrop.

⌘ We would like to thank Raphaël Magermans of the *Département de la Nature et des Forêts - Service public de Wallonie* for the information. Cfr. *GLA41a - Erblaies-tillaies à scolopendre*, Portail Wallonie. <http://biodiversite.wallonie.be/fr/gl-41a-erblaies-tillaies-a-scolopendre.html?IDC=951> [accessed 7 August 2023].

⌘ Author’s translation.

⌘ According to the *Encyclopaedia Britannica*, primary succession is “the evolution of a biological community’s ecological structure) in which plants and animals first colonize a barren, lifeless habitat. Species that arrive first in the newly created environment are called pioneer species, and through their interactions they build a simple initial biological community.” Cfr. “Primary Succession | Definition, Stages, & Facts | Britannica.” <https://www.britannica.com/science/primary-succession> [accessed 19 July 2023].

⌘ This is a rare process that can only exist where fertile soil is lacking on the surface, for example due to a volcanic eruption or after the retreat of a glacier (Majoer et al. 2020, p. 306). Author’s translation.

⌘ Author’s translation.

⌘ Author’s translation.

⌘ Document without author reference available online at: <https://www.enci.nl/nl/plan-van-transformatie> [accessed 7 August 2023].

⌘ Note that the plan was defined nine years before the final closure of the ENCI open-cut quarry in 2018.

⌘ Author’s translation.

BIBLIOGRAPHIES

TERRARIUM AS A DESIGN METAPHOR
SILVIA MUNDULA, KEVIN SANTUN, SARA
ANNA SAPONE

- Benedito S., *Atmosphere Anatomies: On Design, Weather, and Sensation*, Lars Muller, Zurich 2021.
- Carson C., *Introduction to a field guide*, in Idem, Wagstaffe M. (edited by), *Emerging ecologies. Architecture and the rise of environmentalism*, exhibition catalogue, MoMA, New York 2023.
- Forty A., *Words and Buildings: A Vocabulary of Modern Architecture*, Thames & Hudson, New York 2000.
- Auster, P., *Report from the Interior*, Henry Holt & Co, New York 2013.
- Gissen D., *Nature*, in "AA Files", 76, 2019, pp. 126-129.
- Hurxkens I., Fahmi F., Mirjan A., *Robotic Landscapes. Designing the Unfinished*, Park Books, Zürich 2022.
- Ingold T., *Correspondences*, Polity, Cambridge 2021.
- Kowarik I., *Unkraut oder Urwald ? Natur der vierten Art auf dem Gleisdreieck*, in "Bundergarten-schau", (May), 1991, pp. 45-55.
- McHarg I. L., *Design with Nature* (1969), John Wiley & Sons, New York 2005.
- Morton, T., *Ecology without nature: Rethinking environmental aesthetics*, Harvard University Press, Cambridge Massachusetts 2007.
- Spirn A. W., *The Authority of Nature. Conflict and Confusion in Landscape Architecture*, in Wolschke-Bulmahn J. (edited by), *Nature and Ideology. Natural Garden Design in the Twentieth Century*, Dumbarton Oaks Research Library and Collections, Washington 1997, pp. 249-261.
- Trévelo P. A. A., Viger-Kohler S. P., *The Earth Is an Architecture*, Spector Books, Leipzig 2021.
- Ward S.H., *On Wardian cases for plants, and their applications*, John Van Voorst, London 1854.
- Wells L., *Close Encounters of the Wardian Kind: Terrariums and Pollution in the Victorian Parlor*, in "Victorian Studies," 60, 2, 2018, pp. 158-170.

‡ ISLAND

AN OCULUS INTO THE GROUND. MOTHERHOUSE, AND PRESENCING HOMESICKNESS BY DRAWING.
JO VAN DEN BERGHE

- Fjeld O., Fehn S., *The Pattern of Thoughts*, The Monacelli Press, New York 2009, p. 108.
- Husserl E., Strasser S., *Cartesianische Meditationen und Pariser Vorträge*, Springer, Dordrecht 1991.
- Pérez-Gómez A., *The Space of Architecture: Meaning as Presence and Representation*, in Pérez-Gómez A., Pallasmaa J., Holl S. (edited by), *Questions of Perception: Phenomenology of Architecture*, Willam Stout Publishers, San Francisco 2006, p. 12.
- Plato, *Timaeus and Critias*, Harmondsworth, Cambridge 1965, p. 66.

AFFECTIVE ENCOUNTERS: NATURE CLOSE TO THE SKIN
SASKIA DE WIT

- Bachelard G., *The poetics of space*, translated by Maria Jolas, Beacon Press, Boston 1994, or. ed. *La poétique de l'espace*, Presses Universitaires de France, Paris 1958.
- Berléant A., *Living in the Landscape*, University Press of Kansas, Lawrence 1997.
- Foster C., *The Narrative and the Ambient in Environmental Aesthetics*, in "Journal of Aesthetics and Art Criticism", 56, 1998, pp. 127-137.
- Foucault M., *Of Other Spaces: Utopias and Heterotopias*, in Leach N. (edited by), *Rethinking Architecture. A Reader in Cultural Theory*, Routledge, London and New York 1997.
- Granö J.G., *Pure geography*, translated by M. Hicks, The Johns Hopkins University Press, Baltimore 1997, Original edition 1929.
- Hauxner M., *Fra naturlig natur til supernatur. Europaeisk landskabsarkitektur 1967-2007 set fra Danmark*. Ikaros Press, Aarhus 2010.
- Huizinga J., *Homo Ludens*, Uitgeverij Tjeenk Willink, Amsterdam 1938.
- Meyer E., *Sustaining Beauty—the Performance of Appearance*, "Journal of Landscape Architecture", 31, 2008, pp. 6-23.
- Minnema L., *Play and (Post)Modern Culture. An Essay on Changes in the Scientific Interest in the Phenomenon of Play*, "Cultural Dynamics", 10, 1998, pp. 21-47.
- Wit S.I. de., *Hidden Landscapes. The metropolitan garden as a multi-sensory expression of place*, Architectura & Natura Press, Amsterdam 2018.

CHINESE GARDEN. ALLEGORICAL ECOLOGIES IN AN URBANIZING WORLD
GERARDO SEMPREBON

- Aalto A., *The Architect's Conception for Paradise*, in Schildt G. (edited by), *Alvar Aalto Sketches*, The MIT Press, Cambridge, Massachusetts and London, England 1978, p. 158.
- Berenson B., *Esthétique et histoire des arts*, Albin Michel, Parigi 1953.
- W. Chen, *Chinese environmental aesthetics*, Routledge, New York 2015.
- Chu K., *Constructing Ruins: New Urban Aesthetics in Chinese Art and Cinema*, in M. Munro, edited by, *Modern art Asia*, The Enzo Press, Diddcot 2012, pp. 190-213.
- Chu K., *Ruptured Shanshui: landscape composite photography from Lang Jingshan to Yang Yongliang*, in "Photographies", 14, 1, 2021, pp. 3-14.
- Jullien F., *Living off landscape. Or the unthought-of in reason*, Rowman & Littlefield Publishers, London/New York 2014; ed. or. *Vivre de paysage ou L'impense de La raison*, Editions Gallimard, Paris 2014.
- Li X., *Non-linear Utopia. The architectural practice of Ma Yansong*, in Ma Y., *Shanshui city*, Lars Müller Publishers, Zurich 2014, p. 3224.
- Ma Y., *Shanshui city*, Lars Müller Publishers, Zurich 2014.
- Mickle A. W., *Art beyond the generic city: Yang Yongliang's photo composites 2007-2012*, Master Thesis, Graduate School of the University of Oregon 2016.

- Ortells-Nicolau X., *Raised into ruins: Transforming debris in contemporary photography from China*, in "Frontiers of Literary Studies in China", 11, 2, 2017, pp. 263-297.
- Paolillo M., *Il giardino cinese. Una tradizione millenaria*, Guerini e associati, Milano 1996.
- Puppin G., *Natura sublime, natura tossica: un caso studio sulla campagna di pubblicità sociale per la tutela ambientale Shanshui pian* 山水篇, in "Sinosfere", 7, 2019, pp. 1-15.
- Roger A., *Breve trattato sul paesaggio*, Sellerio editore, Palermo 2009; ed.or. *Court traité du paysage*, Editions Gallimard, Paris 1997.
- Ruan X., *Confucius' Courtyard: Architecture, Philosophy and the Good Life in China*, Bloomsbury, London 2021.
- Schafer E. H., *Hunting Parks and Animal Enclosures in Ancient China*, in "Journal of the Economic and Social History of the Orient", 11, 3, 1968, pp. 318-343.
- Semprebbon G., *Ecological Civilisation. China's rush towards an inclusive development of the territory*, in "Officina", 33, 2021, pp. 30-35.
- Tan C., *Landscape without nature: Ecological reflections in contemporary Chinese art*, in "Journal of Contemporary Chinese Art", 3, 3, 2016, pp. 223-41.
- Wang M., *Urbanization and Contemporary Chinese art*, Routledge, New York 2016.

LANDSCAPE ARCHIVE COLLECTIONS. DESIGN THE CONTEMPORARY TERRARIUM
GIULIA SETTI

- AA.VV., *Louvre Lens Museum Park*, in "Area", 152, 2017. <https://www.area-arch.it/louvre-lens-museum-park/> [accessed 25 August 2023]
- Bonneuil C., Fressoz J.B., *The shock of the Anthropocene: the earth, history and us*, Verso, London, New York 2016.
- Braidotti R., *The posthuman*, Polity, Cambridge 2013.
- Cavani A., Orsini G., *Cesare Leonardi. L'architettura della vita. The Architecture of Life*, edited by, catalogo della mostra tenutasi a Modena, 15/09/2017-04/02/2018, Lazy Dog Press, Milano 2017.
- Decot X., Martinez J.L., Pomarède V., *Louvre Lens, l'album 2013. La galerie du temps, Musée du Louvre-Lens*, Somogy editions d'art, Paris 2012.
- Grima J., *Curatorial statement for the "Cesare Leonardi: strutture" exhibition opening at Museo Villa Croce*, Genova 2017. <https://atpdiary.com/cesare-leonardi-villa-croce/> [accessed 24 August 2023].
- Ishigami J., *Freeing Architecture*, LIXIL Publishing, Fondation Cartier pour l'art contemporain, Tokyo, Paris 2018.
- Jacob S., *A museum of time*, in "Domus", 965, 2013, pp. 52-61.
- Leonardi C., Stagi F., *L'architettura degli alberi*, Mazzotta, Milano 1982.
- Morton T., *Dark ecology for a logic of future coexistence*, Columbia University Press, New York 2016.
- Mosbach C., *Catherine Mosbach - design of the biosphere*, in "Landscape Architecture Aotearoa", 2019. <https://www.landscapearchi->

- [tecture.nz/landscape-architecture-aotearoa/2019/6/10/gfa59mesa1t3h1dyesqb2v3yocms](https://www.landscapearchitecture-aotearoa.com/2019/6/10/gfa59mesa1t3h1dyesqb2v3yocms) [accessed 25 August 2023].
- Rocca A., *Louvre Lens*, in "Interni", 629, 2013, pp. 2-7.
- Sejima K., Nishizawa R., *Louvre-Lens*, in "El Croquis", 179/180, 2015, pp. 42-67.
- urbanNext, *The Louvre Lens Museum Park*. <https://urbannext.net/louvre-lens-museum-park/> [accessed 25 August 2023].
- Yoneda K., *Arboreal Artifice: Art Biotope Water Garden by Junya Ishigami + Associates*, in "The Architectural Review", 2021. <https://www.architectural-review.com/places/japan/arboreal-artifice-art-biotope-water-garden-by-junya-ishigami-associates> [accessed 25 August 2023].

TERRARIA. AN EXPERIMENTAL GRAMMAR OF SOIL CONTAMINATIONS
MARGHERITA AUTORINO

- M. Armiero, *Wasteocene: Stories from the Global Dump*. University Press, Cambridge 2021.
- G. Clément, *Le jardin en mouvement*. Sens&Tonka&Cie, Paris 1991.

DEBRIS TERRARIUM. BERLIN AND ITS VOID ISLANDS
SARA ANNA SAPONE

- Clement G., *Manifesto del terzo paesaggio*, De Pieri F. (edited by), Quodlibet, Macerata 2005.
- Eigler F., *Critical approaches to heimat and the "spatial turn"*, in "New German Critique", 115(115), 2012, pp. 27-48.
- Gandy M., *Marginalia: Aesthetics, Ecology, and Urban Wastelands*, in "Annals of the Association of American Geographers", 103(6), 2013, pp. 1301-1316.
- Gandy M., *Natura Urbana: The Brachen of Berlin. Movie of 75 minutes. Fondazione Benetton Studi e Ricerche*, Berlin 2017.
- Gandy M., *Natura Urbana*, MIT Press, Berlin 2022.
- Gandy M., Jasper, S., (edited by) *The Botanical City*, Jovis, Berlin 2020.
- Hunt J. D., *Greater perfections: The practice of garden theory*. University of Pennsylvania Press, Philadelphia 2000, pp. 32-75.
- Kowarik I., *Unkraut oder Urwald ? Natur der vierten Art auf dem Gleisdreieck*, in "Bundergarten-schau", (May), 1991, pp. 45-55.
- Kowarik I., *Südgelände, Berlin: transforming a wild urban wasteland to a new kind of nature park*, in Boschiero P., Folkerts T., Latini L. (edited by), *Natur Park Schöneberger Südgelände and Berlin's Urban Nature*, Fondazione Benetton Studi Ricerche Antiga, Treviso 2022, pp. 28-57.
- Kowarik I., *The Berlin School of Urban Ecology and the emergence of wasteland ecology*, in Boschiero P., Folkerts T., Latini L. (edited by), *Natur Park Schöneberger Südgelände and Berlin's Urban Nature*, Fondazione Benetton Studi Ricerche Antiga, Treviso 2022, pp. 139-152.
- Kowarik I., Langer A., *Natur Park Südgelände: Linking conservation and recreation in an abandoned railyard in Berlin*, in Kowarik, I.

- Körner, S. (edited by.), *Wild Urban Woodlands: New Perspectives for Urban Forestry*, Springer, Berlin 2005, pp. 287-299.
- Kowarik, I., *Urban biodiversity, ecosystems and the city. Insights from 50 years of the Berlin School of urban ecology* in "Landscape and Urban Planning", 240.
- Lachmund J., *Greening Berlin. The Co-Production of Science, Politics, and Urban Nature*, MIT Press, Cambridge/London 2013.
- Mancuso S., Viola A., *Verde brillante: Sensibilità e intelligenza del mondo vegetale*, Giunti Editore S.p.A., Firenze, Milano 2013.
- Marder M., Tondeur A., *The Chernobyl Herbarium: Fragments of an Exploded Consciousness, Open Humanities Press*, London 2016.
- Mariani M., Barron P. (edited by) *Terrain Vague. Interstices at the edge of the pale*, Routledge, New York 2013.
- Protasoni S., *Foreste e arcipelachi: nuove figure territoriali degli insediamenti umani*, in Leveratto J. (edited by), *Erbario. una guida del selvatico a milano*, Mimesis Edizioni, Milano 2022, pp. 32-41.
- Salisbury E. J., *The flora of bombed aread*, in "Nature", 151, 1943.
- Senatsverwaltung für Stadtentwicklung und Umwelt, *Berliner Strategie zur Biologischen Vielfalt*, Report. Berlin 2012.
- Solà-Morales I. de, *Terrain Vague*, in Cynthia Davidson (edited by) *Anyplace*, MIT Press, Cambridge 1995, pp. 118-123.
- Sukopp H., *Flora and vegetation reflecting the urban history of Berlin*, in "Erde", 134(3), 2003, pp. 295-316.
- Uexküll J. von, *A Stroll Through the Worlds of Animals and Men*, in Schiller, C. (edited by) *Instinctive behavior: The development of a modern concept*, International University Press, New York 1934, pp. 5-80.
- Ungers O. M., Koolhaas R., Riemann P., Kollhoff H. Ovaska A., Hertweck F. Marot S., *The city in the city. Berlin a green archipelago*, Lars Muller, Zurich 1977.
- ☞ MACHINES
- TRENCHES, WELLS, AND BOULLÉE'S PYRAMIDS
ALESSANDRO ROCCA
- Aureli P. V., *The Possibility of an Absolute Architecture*, MIT Press, Cambridge 2011.
- Boullée E.-L., *Architecture. Essai sur l'art, manuscrit*, Bibliothèque nationale de France, Paris 1794.
- Boullée E.-L., *Architecture, Essay on Art, edited and annotated by Helen Rosenau, Alec Tiranti*, London 1953.
- Boullée E.-L., *Architecture, Essai sur l'art. Textes réunis et présentés par Jean-Marie Pérouse de Montclos*, Hermann, Paris 1968.
- Colomina B., *Domesticity at War*, The MIT Press, Cambridge 2007.
- Corner J., *Landscape-Fresh Kills Parkland*, in "Topos", 51, 2005, pp. 14-21.
- Curl J. S., *Egyptomania. The Egyptian Revival: a Recurring Theme in the History of Taste*, Manchester University Press, Manchester & New York 1994.
- Enour Saleh H.E.M., *The Pyramidal Form in Contemporary Architecture*, in "ERJ Engineering Research Journal", October 2022, pp. 181-195
- von Falkenhausen S., *The Sphere: Reading a Gender Metaphor in the Architecture of Modern Cults of Identity*, in "Art History: Journal of the Association of Art Historians", 20, June 1997, pp. 238-267.
- Gandy M., *Entropy by design: Gilles Clément, Parc Henri Matisse and the Limits to Avant-garde Urbanism*, in "International Journal of Urban and Regional Research". DOI:10.1111/j.1468-2427.2012.01164.x
- Geroldi C., *Spectacle Island: From discarded fill to designed landscape, a 'natural'-looking park*, in "Journal of Landscape Architecture", 12, 3, 1631, 2017. Doi: 10.1080/18626033.2017.1425314.
- Hutchinson P., *Exploring the connection between landscape and biopolitics: the story of Freshkills Park*, in "Landscape Review", 17, 1, 2017, pp. 16-31.
- Hwang P., *Reevaluating the rationality of Étienne-Louis Boullée*, 2014, <https://www.hlarchitects.net/20142106-reevaluating-the-rationality-of-tienelouis-boullée>
- Hwang P., *Digital cultural heritage Future Visions. Boullée Cenotaph Turenne*, 2017, <https://www.youtube.com/watch?v=vk-GN0DZjQdE> [accessed 18 August 2023].
- Hwang P., *Evaluating the rationality of Boullée through the chasm between conception and perception using digital modelling as a method of analysis: a case study on the Cenotaph of Turenne*, in Greenop K. and Landorf C. (edited by), *Digital Cultural Heritage: Future Visions*, University of Queensland, Brisbane 2018, pp. 75-87.
- Kaufmann E., *Étienne-Louis Boullée*, in "The Art Bulletin", 21, 3, 1939, pp. 213-227.
- Kaufmann E., *Three Revolutionary Architects, Boullée, Ledoux, Lequeu*, The American Philosophical Society, Philadelphia 1952.
- Lynch K.A., *Wasting Away*, Sierra Club Books, San Francisco 1990.
- Madec P., *Boullée*, Hazan, Paris 1986.
- Madrazo L., *The Concept of Type in Architecture: An Inquiry into the Nature of Architectural Form*, PhD diss., Swiss Federal Institute of Technology, 1995.
- Martinez-Rodriguez S., Pace G. (edited by), *Practices for the Underground Built Heritage Valorisation*, Second Handbook, CNR, Roma 2023.
- Melosi M.V., *Fresh Kills: A History of Consuming and Discarding in New York City*, Columbia University Press, New York 2020.
- Mugerauer R., *Interpreting Environments: Traditions, Deconstruction, Hermeneutics: Tradition, Deconstruction, Hermeneutics*, Texas University Press, Austin 1996.
- Picon A., *French Architects and Engineers in the Age of Enlightenment*, Cambridge University Press, Cambridge 1992.
- Pradel C., *Earthworks. Monumental Grounds Moved by the Alp Transit Construction Activities*, in "Oase", 110, *The Project of the Soil*, 2022, pp. 134-137.
- Rosenau H., *Boullée's Treatise on Architecture*,

- Alec Tiranti LTD, London 1953.
- Rosenau H. (edited by), *Boullée & Visionary Architecture*, Academy Editions, New York 1976.
- Rossi A., *Introduzione a Boullée*, in Boullée E.-L., *Architettura. Saggio sull'arte*, Marsilio, Padova 1967.
- Rendu J.-B., *Georges Louis Le Rouge. Dessinateur de Tendances*, in "VMF", 272, March 2017.
- Setti G., *Stepwell. Architetture per l'acqua nel Gujarat*, Letteraventidue, Siracusa 2022.
- Virilio P., *Bunker Archéologie*, Centre Georges Pompidou, Paris 1975.
- Zorzi M., edited by, *Le mura di Verona. Da castrum romano a fortezza austriaca: storia di un capolavoro d'arte militare*, Chartesia, Treviso 2019.
- CABIN FEVER
VALENTINA NOCE
- Mohaghegh J. B., *Omnicide Mania, fatality, and the future-in-delirium*, Urbanomic Media Ltd, Windsor Quarry, Falmouth 2019.
- Cage J., *Notations*, Something Else Press, New York 1969.
- FOUNDATIONS. ROOTS OF AN ECOSYSTEM
GINO BALDI
- Ambrosi A., *Le fondazioni dell'architettura*, in "Lares", 60, 3, July September, 1994, pp. 305-335.
- Berlanda T., *L'incontro con il suolo nell'architettura ticinese*, in "Archi", rivista svizzera di architettura, ingegneria e urbanistica, 1, 2013, pp. 23-28
- Berlanda T., *Architectural topographies: a graphic lexicon of how buildings touch the ground*, Routledge, London 2014.
- Croset P. A., *Una conversazione con Luigi Snozzi*, in "Casabella", 567, 1990, pp. 20-22.
- Diethelm A., *Foundation - Plinth, Building underground*, in Deplazes A., *Constructing architecture: material, processes, structures; a Handbook*, Birkhauser, Basel, 2008, pp. 153-160
- Eckert W., Adapted from Raaijmakers, Dick. *De Methode*, 1985. "This is on top of that", in E2A Architecture, Piet Eckert and Wim Eckert. Hatje, Cantz, Berlin, 2012, pp. 183.
- Ginzburg C., *Spie. Radici di un paradigma indiziario*, Einaudi Editore, Torino 1979.
- Holl S., *Anchoring*, Princeton Architectural Press, New York 1989.
- Raith K., *Die Unterseite der architektur - Konzepte und konstruktionen an der Schnittstelle zwischen kultur und natur*, Springer Wien, ed. Angewandte, 2008.
- Ruby I., Ruby A., *Groundscapes. L'incontro con il suolo nell'architettura contemporanea*, in "Archi", rivista svizzera di architettura, ingegneria e urbanistica, 1, 2013, pp. 17-22
- Weaver J.E., *The ecological relations of roots*, Carnege Istitution of Washington, Washington 1919.
- Zoelly P., *Terratektur: Ein Einstieg in Die Unterirdische Architektur*, Springer, Berlin 1989.

THE LEGACY OF THE ITALIAN NATURALISTIC HYDRAULICS SCHOOL CHIARA TOSCANI

- Aleotti G.B., *Della scienza et dell'arte del ben regolare le acque*, in Rossi M. (edited by), Panini, Modena 2000.
- de la Bellacasa M. P., *Matters of Care: Speculative Ethics in More than Human Worlds*, Univ of Minnesota Press, Minnesota 2017.
- Bettoni C., *Pensieri sul governo de' fiumi*, Pietro Vescoli, Brescia 1782.
- Barattieri G.B., *Architettura d'acque*, G. Bazachi, Piacenza 1669.
- Descola P., *Beyond Nature and Culture*, University of Chicago Press, Chicago 2014.
- Escobar S., *Il controllo delle acque*, in Micheli G. (edited by) *Storia d'Italia, Annali 3, Scienza e tecnica nella cultura e nella società dal Rinascimento ad oggi*, Einaudi, Torino 1980.
- Ferrari F. B., *Corrosioni dei Fiumi*, Giuseppe Galeazzi, Milano 1792.
- Guattari F., *The three ecologies*, Continuum, London 2008.
- Guglielmini D., *Della natura dei Fiumi*, Stamperia della Volpe, Bologna 1739. <https://amshistorica.unibo.it/191>.
- Guglielmini D., *Della natura dei Fiumi*, in *Nuova Raccolta d'autori che trattano del moto delle acque*, Filippo Parmigiani, Parma 1776. <https://www.byterfly.eu/islandora/object/libria:11295#page/4/mode/2up>
- Guglielmini D., *Scritture intorno all'affare del Reno*, in *Nuova Raccolta d'autori che trattano del moto delle acque*, Filippo Parmigiani, Parma 1776. <https://www.byterfly.eu/islandora/object/libria:11295#page/442/mode/2up>
- Di Fido M., Gandolfi C., *Idraulica Italiana*, Fondazione Biblioteca Europea di Informazione e Cultura, Milano 2014.
- Koyré A., *From the closed world to the infinite universe*, The John Hopkins University, London 1957.
- Latour B., *Why Has Critique Run out of Steam? From Matters of Fact to Matters of Concern*, in "Critical Inquiry", 30, Winter 2004, pp. 225-248.
- Latour B., *Rassemblare il sociale. Actor-Network theory*, Meltemi, Roma 2013.
- Maffioli C., *La via delle acque (1500-1700): appropriazione delle arti e trasformazione delle matematiche*, Leo Olschki, Firenze 2010.
- Michelini F., *Trattato della direzione de' fiumi*, Stamperia della Stella, Firenze 1664. <https://echo.mpiwgberlin.mpg.de/ECHDocuView?url=/permanent/library/NH6TEAGB/pageimg&pn=7&mode=imagepath>
- Mills W. J., *Metaphorical Vision: Changes in Western Attitudes to the Environment*, in "Annals of the Association of American Geographers", Vol. 72, 2, Jun. 1982, pp. 237-253.
- Newman W. R., *Promethean ambitions: Alchemy and the Quest to Perfect Nature*, University of Chicago Press New edition, Chicago 2005.
- Papadopoulos D., de la Bellacasa M.P., Tacchetti M., *Ecological repairation*, Bristol University Press, Bristol 2023.
- Sabbadino C., *Discorsi del Sabbadino*, in Tiozzo Gobetto P. G. (edited by), *Il sistema della laguna a metà Cinquecento: atti delle celebrazioni del 450° anniversario della morte*, Il Leggio

- Libreria Editrice, Venezia 2013.
- Sabbadino C., *Discorsi de il Sabbadino, in Antichi scrittori d'idraulica veneta*, Volume II, a cura di R. Cessi, Premiate Officine Grafiche Ferrari, Venezia 1919.
- Toulmin S. E., *Cosmopolis. The Hidden Agenda of Modernity*, University of Chicago Press, Chicago 1992.
- Viviani V., *Discorso intorno al difendersi da' riempimenti e dalle corrosioni de' fiumi, applicato ad Arno in vicinanza della Città di Firenze*, Piero Matini, Firenze 1688.
- ACQUA VIVA E CORRENTE: INSIGHTS FROM RENAISSANCE FONTANIERI MASTERY
MARIANA PEREIRA GUIMARÃES, HERMANO LUZ RODRIGUES
- Barbieri P., *Hydraulic Musical Automata in Italian Villas and Other Ingenia 1400-2000*, Gangemi SPA International, Rome 2020.
- Caus, S. de., Les raisons des forces mouvantes avec diuerses machines tant villes que plaisantes, En la boutique de Jan Norton, 1615. Source: Smithsonian Libraries and Archives, Natural History Building. <https://doi.org/10.5479/sil.375615.39088008194136>
- Coffin D.R., *Gardens and Gardening in Papal Rome*, Princeton University Press, Princeton 1991.
- Delagardette C.M., *L'Art du plombier et fontainier*, Desaint et Saillant, Paris, M.DCC.LXXIII, National Library of France, Rare Books Reserve department, V-3974 (3), 1773. <https://gallica.bnf.fr/ark:/12148/bpt6k1073284d>
- Fabiani Giannetto R., *Medici Gardens: From Making to Design*, Univ. of Pennsylvania Press, Philadelphia 2008.
- Fischer H., *Utopia, Science and Garden Art in the Early Modern Era*, in Fischer H., Remmert, V., Wolschke-Bulmahn, J. (edited by) *Gardens, Knowledge and the Sciences in the Early Modern Period. Trends in the History of Science*, Birkhäuser, Cham 2016. https://doi.org/10.1007/978-3-319-26342-7_8
- Fontana, C., Utilissimo trattato dell'acque correnti: diviso in 3 libri, nel quale si notificano le misure, ed esperienze di esse; I giuochi, e scherzi, li quali per mezzo dell'aria, e del fuoco, vengono operati [...]. Roma: nella Stamparia di Gio. Francesco Buagni, 1696. Source: ETH-Bibliothek Zürich. Rar 1070 <https://doi.org/10.3931/e-rara-9301/>
- Gandy M., *Urban Nature and the Ecological Imaginary*, in Heynen N., Kaika M., Swynnedouw E. (edited by), *In the Nature of Cities. Urban Political Ecology and the Politics of Urban Metabolism*, Routledge, London 2006, pp. 62-71.
- Graham S., *Disrupted cities: When infrastructure fails*. Routledge, New York 2009. <https://doi.org/10.4324/9780203894484>
- Graham S., & Thrift N., *Out of Order: Understanding Repair and Maintenance*, in "Theory, Culture & Society", 24, 3, 2007, pp. 1-25. <https://doi.org/10.1177/0263276407075954>
- Gissen D., *Nature*, in "AA Files", 76, 2019, pp. 126-129.
- Hunt J., *Greater Perfections: The Practice of Garden Theory in Garden History*, Universi-

- ty of Pennsylvania Press, Philadelphia 2000.
- Illich I., *H2O And the Waters of Forgetfulness*, Marion Boyars, New York 1986.
- Lee M.G., Helphand K.L., *Technology and the Garden: 35th Dumbarton Oaks Colloquium on the History of Landscape Architecture*, Washington D.C. May 6th-7th 2011, Dumbarton Oaks research library and collection, Washington D.C. 2014.
- Picon A., *Water, Technology, and Society: A Historical Overview*, in Margolis L., Chaouin A. (edited by), "Out of Water - Design Solutions for Arid Regions" Birkhäuser, Basel 2015, pp. 29-39.
- Rinne KW., *The Waters of Rome: Aqueducts Fountains and the Birth of Baroque City*, Yale University Press, New Haven, Connecticut 2011.
- Santini C., *Les artistes de l'eau in "Fontainiers à Versailles au Grand Siècle"*, in "Projets de paysage: revue scientifique sur la conception et l'aménagement de l'espace", HAL, III, 2019, pp. 1-15. <https://doi.org/10.4000/paysage.26343>
- Strong R., *The Renaissance Garden in England*, Thames and Hudson, London 1979.
- Symmes M. F., Breisch K. A., Astley S., and Cooper-Hewitt, *Museum Fountains: Splash and Spectacle: Water and Design from the Renaissance to the Present*, Thames and Hudson, Singapore 1998.

THE PALM HOUSE. A PROJECT OF DOMESTICATION SILVIA MUNDULA

- Amidon J., *Hypernature*, in Michael Van Valkenburgh Associates (edited by), *Allegheny Riverfront Park*, Princeton Architectural Press, New York 2005, pp. 57-72.
- Brevini F., *L'invenzione della natura selvaggia. Storia di un'idea dal XVIII secolo a oggi*, Bollati Boringhieri, Torino 2013.
- Burckhardt L., *Il falso è l'autentico. Politica, paesaggio, design, architettura, pianificazione, pedagogia*, edited by Gaetano Licata e Martin Schmitz, Quodlibet, Macerata 2019.
- Crane P., *The Evolving Role of the Royal Botanic Gardens, Kew*, in "The Horticulturist", 11, 1, 2002, pp. 5-8. <http://www.jstor.org/stable/45139200>
- Forty A., *Transparency*, in Idem (ed.) *Words and Buildings. A Vocabulary of Modern Architecture, Thames and Hudson*, London 2000, pp. 286-288.
- Heynen H., *Walter Benjamin: The Dream of a Classless Society*, in Idem *Architecture and Modernity*, MIT Press, Cambridge, MA, 1999, pp. 95-117.
- Horwood C., *Potted History: The History of Plants in the Home*, Frances Lincoln, London 2007.
- Jencks C., Baird G. (edited by), *Meaning in Architecture*, Barrie & Rockliff the Cresset Press, London 1969.
- Johnson N. C., *Nature Displaced, Nature Displayed: Order and Beauty in Botanical Gardens*, I.B. Tauris, London and New York 2011.
- Kipling R., *Recessional*, in "The Times", July 17, 1897.

- Marris E., *Rambunctious Garden. Saving Nature in a Post-Wild World*, Bloomsbury, New York and London 2011.
- Matveleff C., *Palm House, Kew Gardens* (thesis), Architectural Association, London 1989.
- Powledge F., *The Evolving Role of Botanical Gardens: Hedges against extinction, show-cases for botany?*, in "BioScience", 61, 10, (October 2011), pp. 743-749. <https://www.jstor.org/stable/10.1525/bio.2011.61.10.3>
- Rowe C., Slutzky R., *Transparency* (1963), Birkhauser Verlag, Basel 1997.
- Treib M., *The Aesthetics of Contemporary Planting Design*, ORO Editions, Novato, CA 2021.
- Vidler A., *Histories of the immediate present: inventing architectural modernism*, MIT Press, Cambridge, MA 2008.
- Whiston Spirn A., *The Authority of Nature: Conflict and Confusion in Landscape Architecture*, in Wolschke-Bulmahn J. (edited by), *Nature and Ideology Natural Garden Design in the Twentieth Century*, Dumbarton Oaks, Washington 1997, pp. 249-261.
- Whitbourn P., *Decimus Burton, Esquire: Architect and Gentleman (1800-1881)*, Royal Tunbridge Wells Civic Society, Tunbridge, Kent 2003.
- Woods M., Swartz Warren A., *Glass Houses: A History of Greenhouses, Orangeries and Conservatories: History of Greenhouses, Conservatories and Orangeries*, Aurum Press, London 1990.

VEGETATION AS ARCHITECTURAL FORMS. SITE'S IRONY AND DESIGN PERSPECTIVES KEVIN SANTUS

- Andraos A., "What does climate change? (For architecture)", in Graham J., Blanchfield C., Anderson A., Carver J. H., Moore J. (edited by), *Climates: Architecture and the Planetary Imaginary*, Lars Muller Publishers, Zurich 2016, pp. 297-302.
- Barber D.A., Putalik E., *Forest, tower, city: rethinking the green machine aesthetic*, in "Harvard Design Magazine", 45 "Into the Woods", 2018, pp. <https://www.harvarddesignmagazine.org/articles/forest-tower-city-rethinking-the-green-machine-aesthetic/> [accessed 5 January 2024].
- Biraghi M., *L'architetto Come Intellettuale*, Einaudi, Torino 2019.
- Chan C., Wagstaffe M., *Emerging Ecologies: Architecture and the Rise of Environmentalism*, Museum of Modern Art, New York 2023.
- Cook P., *Drawing: The Motive Force of Architecture*, Wiley, Second, 2014.
- Gallanti F., *A cut, a move, a forest*, in "Harvard Design Magazine", 45 "Into the Woods", 2018, pp. <https://www.harvarddesignmagazine.org/articles/a-cut-a-move-a-forest/> [accessed 5 January 2024].
- Gissen D., *Subnature - Architecture's others environments*, Princeton Architectural Press, New York 2009.
- Hochhäusl S., Lange T., Adams R.E., Barber D.A., Bierig A., Cupers K., Doucet I., Ferng J., Fischer S. von, Förster K., Krivý M., Kurg A., Levin A., Nolan G., Vronskaya A., *Architecture and the*

- Environment*, in "Architectural Histories", 6(1), 2018, DOI: <http://doi.org/10.5334/ah.259>
- Howe C., Pandian A., *Anthropocene Unseen: A Lexicon*, Punctum Books, New York 2020.
- Petit E., *Irony, Or, the Self-Critical Opacity of Postmodern Architecture*, Yale University Press, New Haven 2013.
- Rapanà P., *Ecocentrico: Forma e linguaggio nell'era ecologica*, in "AND Rivista Di Architettura, Città e Architetti", 16(3), 2009, p. 153-157.
- SITE, Restany P., Zevi B., *Site: Architecture As Art*, St. Martin's Press, New York 1980.
- Trévelo P.A.A., Viger-Kohler S.P., *The Earth is an Architecture*, Spector Books, Leipzig 2021.
- Virilio P., *Bunker Archaeology*, Princeton Architectural Press, New York 2008 [1994].
- Wright L., *Architecture sharing space*, in "Antennae," 2021, p. 46-55.

↓ BIOMES

THE PHILOSOPHICAL CITY. THE BECOMING-WORLD OF THE CITTÀ VECCHIA OF COSENZA FELICECIMATTI

- Bennett J., *Vibrant Matter: A Political Ecology of Things*, Duke University Press, Durham 2010.
- Esposito R., *Le persone e le cose*, Einaudi, Torino 2014.
- Mucina L., *Biome: evolution of a crucial ecological and biogeographical concept*, in "New Phytologist", 222, 2019, pp. 97-114.
- Needham J., *Order and Life*, MIT Press, Boston 1936.
- Rubino G., Teti M. A., *Cosenza, Laterza, Roma-Bari 1997*.
- Pinceti S., *Cities as Novel Biomes: Recognizing Urban Ecosystem Services as Anthropogenic*, in "Frontiers in Ecology and Evolution", 2015, 3, 140, doi: 10.3389/fevo.2015.00140
- Placanica A., *Storia della Calabria dall'antichità ai nostri giorni*, Donzelli, Roma 1999.
- Rossi P., Augusto Viano C. (edited by), *Le città filosofiche. Per una geografia della cultura filosofica italiana del Novecento*, Il Mulino, Bologna 2004.
- Telesio B., *La natura secondo i suoi principi*, Bondi R. (edited by), Bompiani, Milano 2009.
- Teti V., *Il senso dei luoghi. Memoria e storia dei paesi abbandonati*, Donzelli, Roma 2022.

FORT ECOLOGIES AND THE PLANETARY TERRARIUM MARCO FERRARI, SARA FAVARGIOTTI

- Barchetta L., *La rivolta del verde. Nature e rovine a Torino*, Agenzia X, Milano 2020.
- Brenner N., Schmid C., 11 *Planetary Urbanization*, in Brenner N. (edited by) *Implosions/Explosions: Towards a Study of Planetary Urbanization*, JOVIS Verlag GmbH, Berlin, Boston 2013. <https://doi.org/10.1515/9783868598933-012>
- Colomina B., Wigley M., *Are We Human? Notes on an Archaeology of Design*, Lars Mueller Publishers, Zurich 2017.

- Corrado M., *Il sentiero dell'architettura porta nella foresta*, Franco Angeli, Milano 2012.
- Czerniak J., *Looking back at landscape urbanism: speculations on site*, in Waldheim, C., *The Landscape Urbanism Reader*, Princeton Architectural Press, New York 2006, p. 105-123.
- Escobar A., *Designs for the Pluriverse: Radical Interdependence, Autonomy, and the Making of Worlds*, Duke University Press Books, Durham 2018.
- Ferrari M., Favargiotti S., *Forts ecologies: an interspecific approach to fortified heritage*, in Bevilacqua M. G., Ulivieri D. (edited by), *Proceedings of the International Conference on Fortifications of the Mediterranean Coast FORTMED 2023*, Pisa University Press, Pisa 2023. DOI: 10.12871/978883339794875
- Fisher E., *Woman's Creation: Sexual Evolution and the Shaping of Society*, Anchor Press, Norwell 1979.
- Glissant E., *Poetics of Relation*, University of Michigan Press, Ann Arbor 1997.
- Graham J., *Climates: Architecture and the Planetary Imaginary*, Lars Mueller Publishers, Zurich 2016.
- Haraway D. J., *Chthulucene. Sopravvivere su un pianeta infetto*, Nero Editions, Rome 2019.
- Haraway, D. J., *Simians, Cyborgs, and Women - The Reinvention of Nature*, Routledge, Abingdon 1991.
- Ingold T., *Making: Anthropology, Archaeology, Art and Architecture*, Routledge, Abingdon 2013.
- Le Guin U., *The Carrier Bag Theory of Fiction*, Ignota Books, London 2020.
- Leoni D., *La guerra verticale. Uomini, animali e macchine sul fronte di montagna (1915-1918)*, Einaudi, Milano 2015.
- Lowenhaupt Tsing A., Bubandt N., Gan E., Swanson H.A., *Arts of Living on a Damaged Planet: Ghosts and Monsters of the Anthropocene*, University of Minnesota Press, Minneapolis 2017.
- Metta A., *Il paesaggio è un mostro. Città selvatiche e nature ibride*, DeriveApprodi, Bologna 2022.
- Morton T., *Hyperobjects: Philosophy and Ecology After the End of the World*, University of Minnesota Press, Minneapolis 2013.
- Morton T., *Realist Magic: Objects, Ontology, Causality*, Open Humanities Press, London 2013.
- Schneiderman D., Campos A., *Interiors beyond Architecture*, Routledge, Abingdon 2018.
- Steiner F.R., Weller R., M'Closkey K., Fleming B., *Design with Nature Now*, Lincoln Institute of Land Policy, Cambridge 2019.
- Turan N., *Architecture as Measure*, Actar Publishers, Barcelona 2020.
- TVK (Trévelo P.A., Bullier A., Enon D., Malaud D., Mercuriali M., Ragoucy O., Viger-Kohler A.), *The Earth is an Architecture*, Spector Books, Leipzig 2022.
- Vogt G., *Landscape as a Cabinet of Curiosities*, Lars Mueller Publishers, Zurich 2015.
- Zaera-Polo A., Anderson J., *The Ecologies of the Building Envelope: A Material History and Theory of Architectural Surfaces*, Actar Publishers, Barcelona 2021.
- A NEED FOR CHANGE. VIENNA, A PERFORMATIVE BEAUTY
CASSANDRA COZZA
- Blaschek E. (edited by), *Mariahilf einst und jetzt*, Gerlach & Wiedling, Vienna 1926, p. 136.
- City of Vienna – Municipal Department for Urban Development and Planning, *Smart Climate City Strategy Vienna. Our way to becoming a model climate city*, Vienna Municipal Administration, Vienna 2022. <https://smartcity.wien.gv.at/en/strategy/> [accessed 15 January 2024].
- Cozza C., *Paradigmi e progetto. Le trasformazioni della città contemporanea*, Maggioli editore, Sant'Arcangelo di Romagna 2017.
- Faber E., *Wien in alten Ansichtskarten*, Mariahilf und Neubau, Zaltbommel, Vienna 1989, p. 24.
- Kaltsatou A., Kenny G.P., Flouris A.D., *The Impact of Heat Waves on Mortality among the Elderly: A Mini Systematic Review in "Journal of Geriatric Medicine Gerontology"*, 4, 2018, p. 053. [Doi.org/10.23937/2469-5858/1510053](https://doi.org/10.23937/2469-5858/1510053) [accessed 22 December 2023].
- Kühn C., *Mahnmal am Haus des Meeres: Alles für die Fische?*, in "Die Presse", 07.04.2018. [Online] <https://www.diepresse.com/5401386/mahnmal-am-haus-des-meeres-alles-fuer-die-fische> [accessed 22 December 2023].
- Municipal Department 20 – Energy planning, *Vienna Climate Guide. Towards a climate-friendly city*, Vienna City Administration, Vienna 2022. <https://www.wien.gv.at/english/environment/klip/program.html> [accessed 22 December 2023].
- Municipal Department 22 – Environmental Protection Department, *Urban Heat Island Strategy. City of Vienna*, Municipality of Vienna, Vienna 2018 (Magistratsabteilung 22, Urban Heat Island. Strategieplan Wien, Wiener Umweltschutzabteilung, Wien 2015) [Online] <https://www.wien.gv.at/umweltschutz/raum/uh-strategieplan.html>.
- Staniewska A., *Esterházy Park in the urban tissue of Vienna*, in "Wiadomości Konserwatorskie. Journal of Heritage Conservation", 46, 2016, pp. 16-29. [Doi:10.17425/WK46ESTERHAZY](https://doi.org/10.17425/WK46ESTERHAZY). <https://www.geschichtewiki.wien.gv.at/Esterhazypark> [accessed 15 January 2024]. <https://www.wien.gv.at/umwelt/parks/anlagen/esterhazy.html> [accessed 15 January 2024].
- STOLEN LAND. DISAPPEARING ISLANDS AND THE MALDIVIAN PARADOX
BEATRICE AZZOLA, ANNALISA AZZOLA, IRENE PANCAZZI, HASSAN AHMED
- Gnanadesikan A. E., Boyle David A. (edited by), *Divhehi: The language of the Maldives*, Vol. 3, Mouton De Gruyter, Berlin 2016.
- Gussmann G., Hinkel J., *What drives relocation policies in the Maldives?*, in "Climatic Change", 163, 2020, pp. 931-951.
- Halpern B. S., Selkoe K. A., Micheli F., & Kappel, C. V., *Evaluating and ranking the vulnerability of global marine ecosystems to anthropogenic threats*, in "Conservation biology", 21, 5, 2007, pp. 1301-1315.

- Kench P.S., Liang C., Ford M.R. et al., *Reef islands have continually adjusted to environmental change over the past two millennia*, in "Nature Communications", 508, 2023, pp. 1-12.
- Knowlton N., Grotto A. G., Kleypas J., Obura D., Corcoran E., de Goeij J. M., Felis T., Harding S., Mayfield A., Miller M., Osuka K., Peixoto R., Randall C. J., Voolstra C. R., Wells S., Wild C., Ferse S., *Rebuilding Coral Reefs: A Decadal Grand Challenge*, in "International Coral Reef Society and Future Earth Coasts", 56, 2021, pp. 1-48.
- Kothari U., *Political discourses of climate change and migration. Resettlement policies in the Maldives*, in "The Geographical Journal", 180, 2014, pp. 130-140.
- Lindsey R., *Climate change: Global sea level*, available online: climate.gov, [accessed 14 August 2023], 2022.
- McConnell T., *The Maldives Is Being Swallowed by the Sea. Can It Adapt?*, in "National Geographic", January 20, 2022, available online: nationalgeographic.com [accessed 14 August 2023].
- Milsum J. H., *The technosphere, the biosphere, the sociosphere. Their systems modeling and optimization*, in "IEEE Spectrum", 5, 6, 1968, pp. 76-82.
- Moosa A., Do K., Jonecu E., *Design response to rising sea levels in the Maldives: A study into aquatic architecture*, in "Frontiers of Architectural Research", 9, 3, 2020, pp. 623-640.
- Pedroso de Lima R. L., De Graaf-Van Dinther R. E., Boogaard F. C., *Impacts of floating urbanization on water quality and aquatic ecosystems: a study based on in situ data and observations*, in "Journal of Water and Climate Change", 13, 3, 2022, pp. 1185-1203.
- Roff J. C., Zacharias M., Day J., *Marine conservation ecology*, Earthscan, London-New York 2011, p. 439.
- Stevens G. M. W., Froman N., *Chapter 10 - The Maldives Archipelago*, in Sheppard C. (edited by), *World Seas: an Environmental Evaluation* (Second Edition), Academic Press, Amsterdam 2019, pp. 211-236.
- Storlazzi C. D., Gingerich S. B., Van Dongeren A. P., Cheriton O. M., Swarzenski P.W., Quataert E., Voss C. I., Field D. W., Annamalai H., Piniak G. A., McCall R., *Most atolls will be uninhabitable by the mid-21st century because of sea-level rise exacerbating wave-driven flooding*, in "Science advances", 4, 4, 2018, pp. eaap9741.
- Vogel S., *On nature and alienation*, in Biro A. (edited by), *Critical Ecologies*, 2011, pp. 187-205.
- IN VITRO LANDSCAPES
SARA PROTASONI
- Botar O., *The Biocentric Bauhaus*, in Terranova C.N., Tromble M. (edited by), *The Routledge Companion to Biology in Art and Architecture*, Routledge, New York 2017, pp. 65-82.
- Brusati C., *Paradoxical Passages: The Work of Framing in the Art of Samuel van Hoogstraten*, in Thijs Weststeyn (edited by), *The Universal Art of Samuel van Hoogstraten (1627-1678)*, Amsterdam University Press, Amsterdam 2013, pp. 53-75.
- Capuano A., Caprino V., Impellizzeri L., Sakellariou A. (edited by), *The Landscape as Union between Art and Science. The Legacy of Alexander von Humboldt and Ernst Haeckel*, Quodlibet, Macerata 2023.
- Coccia E., *La vita delle piante. Metafisica della mescolanza*, Il Mulino, Bologna 2018.
- Farinelli F., *L'invenzione della Terra*, Sellerio, Palermo 2016.
- Francé R.H., *Die Pflanze als Erfinder*, Kosmos, Gesellschaft der Naturfreunde, Stuttgart 1920.
- Haeckel E., *Kunstformen der Natur*, Bibliografisches Institut, Leipzig 1904.
- Kepes G., *The New Landscape in Art and Science*, Paul Theobald and Co., Chicago 1956.
- Kropotkin P.A., *Il mutuo appoggio. Un fattore dell'evoluzione (1902)*, traduzione italiana a cura di Giacomo Borella, Eleuthera, Milano 2020.
- Mancuso S., *La nazione delle piante*, Laterza, Roma-Bari 2019.
- Mertins D., *Living in a Jungle: Mies, Organic Architecture and the Art of City Building*, in Lambert P. (edited by), *Mies van der Rohe in America*, CCA-Montreal, Whitney Museum of American Art-New York, Hatje Cantz Publisher, Montreal 2001, pp. 591-641.
- Metta A., *Il paesaggio è un mostro. Città selvatiche e nature ibride*, DeriveApprodi, Roma 2022.
- Morton T., *Being Ecological*, Penguin Books – Penguin Random House, UK 2018.
- Morton T., *Dark Ecology: For a Logic of Future Coexistence*, Columbia University Press, New York 2016.
- Morton T., *The Ecological Thought*, Harvard University Press, Cambridge 2010.
- Mosbach C., *Inside Outside*, in Architecture as Art, exhibition at Hangar Bicocca in Milan within the 16th Triennale di Milano promoted by Pierluigi Nicolin and edited by Nina Bassoli, 2016. See "Lotus", n. 160, Architectural Turn, 2016, pp. 84-91.
- Mosbach C., *Lost in Transition*, 2018, <https://landscape.coac.net/en/node/589>.
- Protasoni S., *Das Edphion: Raoul Francé and the Ecology of Soil*, in "OASE", n. 110, 2021, pp. 23-33.
- Vogt G., *Landscape as a Cabinet of Curiosities*, Bornhauser R., Kissling T. (edited by), Lars Müller, Zürich 2015.
- von Humboldt A., *Viaggio alle regioni equinoziali del Nuovo Continente*, Farinelli F. (edited by), Quodlibet, Macerata 2014.
- von Uexküll J., *Ambienti animali e ambienti umani. Una passeggiata in mondi sconosciuti ed invisibili*, (Streifen durch Umwelten von Tieren und Menschen. Ein Bilderbuch unichtbarer Welten, 1934) Quodlibet, Macerata 2011.
- Willmann R., *Nature Science and Art in the Work of Ernst Haeckel*, in Capuano A., Caprino V., Impellizzeri L., Sakellariou A. (edited by), *The Landscape as Union between Art and Science. The Legacy of Alexander von Humboldt and Ernst Haeckel*, Quodlibet, Macerata 2023, pp. 113-138.
- Wulf A., *L'invenzione della natura. Le avventure di Alexander von Humboldt, l'eroe perduto della scienza*, Luiss, Roma 2017.

▲ WILDNESS

EARTHLY EMERGENCES: SPONTANEOUS ENTITIES
DAMIANO DI MELE

- Arques Soler F., *Miguel Fisac*, Ediciones Pronaos, Madrid 1996, p. 186.
- Campo Baeza A., *La bellezza ribelle. Sull'architettura di Miguel Fisac*, in Id., *Alberto Campo Baeza. L'idea costruita*, in Italian edition Mauro A. (edited by), LetteraVentidue, Siracusa 2012, pp. 61-63.
- Cervini G., *Sopra e sotto la linea di terra. L'architettura come racconto topografico*, Quodlibet, Macerata 2023.
- Fernández-Galiano L., *Naturaleza viva. Sobre el cuerpo y el clima*, Arquitectura Viva, Madrid 2022.
- Ferrer Forés J. J., *Costa de los Pinos: Miguel Fisac in Mallorca*, Colegio Oficial de Arquitectos de les Illes Balears, Palma de Mallorca 2009.
- Fisac M., *Mi estética es mi ética*, Museo de Ciudad Real, Ciudad Real 1982.
- Fisac M., *Arquitectura popular manchega*, Instituto de Estudios Manchegos, Ciudad Real 1985.
- Klee P., *Teoria della forma e della figurazione, vol I*, Feltrinelli, Milano 1959, or. ed. *Wege des Naturstudiums, in Staatliches Bauhaus Weimar 1919-1923*, Bauhaus, Weimar und Karl Nierendorf, Köln, Bauhausverlag, Weimar und München 1923.
- Nathan Rogers E., *Programma: Domus, la casa dell'uomo*, in "Domus", 205, gennaio 1946, pp. 2-3
- "Nueva Forma", vol. 1, 39, *Miguel Fisac*, monographic issue, abril 1969.
- "Nueva Forma", vol. 2, 41, *Miguel Fisac*, monographic issue, junio 1969.
- Peris Sánchez D., *El proyecto residencial de Miguel Fisac*, Bubok Publishing S.L., Madrid 2016, pp. 236-239.
- Roda Lamsfus P., *Miguel Fisac. Apuntes y viajes*, Editorial Scriptum, Madrid 2007.
- Rudofsky B., *Le meraviglie dell'architettura spontanea*, Editori Laterza, Bari 1977.
- Sanchez Lampreave R. (edited by.), *Miguel Fisac Premio Nacional de Arquitectura 2002*, Ministerio de Vivienda, Madrid 2009.
- Zevi B., *Verso un'architettura organica. Saggio sullo sviluppo del pensiero architettonico negli ultimi cinquant'anni*, Einaudi Editore, Torino 1945.

PILING, MENDING, REASSEMBLING: AES-THETIC AND POETIC OF THE SUBALTERN LANDSCAPES
NADIA BERTOLINO

- Bertolino N., *Architects of the "Silent Revolution": Empowering Local Communities through Commons-Based Resilience Strategies*, in "New Geographies: Commons" (Vol. 12) a cura di M. Mahdavi e L. Wang. Harvard University Press, 2022, pp. 270-283.
- De Moor T., *The Silent Revolution: A New Perspective on the Emergence of Commons, Guilds, and Other Forms of Corporate Collective Action in Western Europe*, in "International Review of Social History", 53, 2008, pp. 179-212.

- Gray R. & Sheikh S., *The Wretched Earth: Botanical Conflicts and Artistic Interventions*. Third Text, 32:2-3, 2018, pp. 163-175.
- Haraway D., *Anthropocene, Capitalocene, Plantationocene, Chthulucene: Making Kin*, in "Environmental Humanities", 1 May 2015; 6 (1), 2015, pp. 159-165.
- Hawkes, D., *The Environmental Imagination: Technics and Poetics of the Architectural Environment*, Routledge, Abingdon 2008.
- Lovelock J.E. and Margulis, L., *Atmospheric homeostasis by and for the biosphere: the Gaia hypothesis*, in "Tellus", 26, 1-2: 1-10, 1974.
- Massey D. B., *For Space*. SAGE, London 2005.
- Metta A. & Olivetti M.L. (edited by), *La Città Selvatica: Paesaggi Urbani Contemporanei*, Libria, Melfi 2019.
- Petcou C. & Petrescu D., *Co-produced Urban Resilience: A Framework for Bottom-Up Regeneration*, in "Architectural Design", 88(5), pp. 58-65, 2018.
- Rawes P. (ed), *Relational Architectural Ecologies. Architecture, Nature and Subjectivity*, Routledge, London 2013.
- Sennet R., *The Uses of Disorder: Personal Identity and City Life*. Verso Books, London 1970.
- Tronto J., *Who Cares? How to Reshape a Democratic Politics*, Cornell Selects, Ithaca 2015.
- Tsing A., *The Mushroom at the End of the World: on the Possibility of Life in Capitalist Ruins*. Princeton University Press, Princeton 2015.
- Zeiger L.C., *The Ecology of Architecture: A Complete Guide to Creating Environmentally Conscious Building*. Whitney Library of Design, Watson-Guptill Publications, New York 1996.

INFRASTRUCTURE AS A TERRARIUM. BETWEEN DISCOVERY AND RE-DISCOVERY OF THE INVOLUNTARY
ANDREA OLDANI

- Abbott R.J., Brennan A.C., James J.K., Forbes D.G., Hegarty M.J., Hiscock S.J., *Recent hybrid origin and invasion of the British Isles by a self-incompatible species*, Oxford ragwort (*Senecio squalidus* L., Asteraceae), in "Biological Invasions", 11 (2009): 1145-1158.
- Borda-de-Agua L., Barrientos R., Beja P., Pereira H.M., (edited by), *Railway Ecology*, Springer, Cham 2017.
- Boschiero P., Folkerts T., Latini L. (edited by), *Natur Park Schöneberg Südgelände e la natura urbana berlinese*, Premio internazionale Carlo Scarpa per il Giardino 2022, Fondazione Benetton Studi Ricerche, Treviso 2022.
- Boudvin S., *Ailanthus altissima - Une monographie située de l'ailante*, Editions B42, Paris 2021.
- Brunon H., Mosser M., *Le Jardin contemporain. Renouveau, expériences et enjeux*, Nouvelles éditions Scala, Paris 2011, p. 90-91.
- Burg A., *Natur-Park Südgelände, Berlin-Schöneberg: una imprevista vittoria della natura*, in "Lotus", 144, 2010.
- Calbi M., *Piante di strada. Erbario di Genova tra muri, créuze e marciapiedi*, Tuss, Genova 2021.
- Clément G., *Le Jardin en mouvement*, Pandora, Paris 1991.
- Clément G., *Manifeste du Tiers paysage, Éditions Sujet/Objet*, Paris 2004.

- Del Tredici P., *The Flora of the Future*, in Reed C., Lister N.M. (edited by), *Projective Ecologies: Ecology, Research, and Design in the Climate Age*, Actar, New York 2020, pp. 242-261.
- Gandy M., Jasper S. (edited by), *The Botanical City*, Jovis, Berlin 2020.
- Gandy M., *Natura Urbana: Ecological Constellations*, in Urban Space, MIT Press, Cambridge 2022.
- Gissen D., *The Architecture of Disability. Buildings, Cities, and Landscapes beyond Access*, University of Minnesota Press, Minneapolis 2023.
- Greene A., *No.235 Encyclopaedia of an Allotment*, HEF publishers, Rotterdam 2015.
- Keogh L., *The Wardian Case: How a Simple Box Moved Plants and Changed the World*, University of Chicago Press, Chicago 2023.
- Lurgi M., López B.C., Montoya J.M., *Novel communities from climate change*, in "Philosophical Transaction of the Royal Society B", Volume 367, Issue 1605, 2012.
- Mancuso S., *L'incredibile viaggio delle piante*, Laterza, Roma-Bari 2018.
- Muratet A., Muratet M., Pellaton M., Barral X., *Flore des friches urbaines*, Les presses du reel, Dijon 2017.
- Pfeiffenschneider M., Grjser P., Ries C., *Distribution of selected neophytes along the main rivers of Luxembourg*, in "Bulletin de la Société des naturalistes luxembourgeois", n. 115, 2014, pp. 95-100.
- Raza M.M., Bebbler D.P., *Climate change and plant pathogens*, in "Current Opinion in Microbiology", Volume 70, 2022.
- Revill G., *Railway*, Reaktion Books, London 2012.
- Szilassi P., Soóky A., Bátor Z., Hábcnyus A.A., Frei K., Tölgyesi C., van Leeuwen B., Tobak Z., Csikós N., *Natura 2000 Areas, Road, Railway, Water, and Ecological Networks May Provide Pathways for Biological Invasion: A Country Scale Analysis*, in "Plants", n. 10 2670, 2021. <https://doi.org/10.3390/plants10122670>
- Vollaard P., *Time-Based Architecture in Mildam The Ecocathedral (ca. 1970-3000) by Louis le Roy*, in "OASE 1970s Revisited", (57), 2001, pp. 74-85.

INFRASTRUCTURE OF THE UNEXPECTED. THE CORVETTO FLYOVER AS A TRANSGRESSIVE TERRARIUM
ANDREA FOPPIANI, DAVIDE MONTANARI

- Bee M., Clément G., *Soil as a Space of Indecision*, in "OASE", 110, 2022, pp. 145-151.
- Besse J., *Peasaggio ambiente. Natura, territorio, percezione*, Derive Approdi, Roma 2020; or. ed. *La nécessité du paysage*, Éditions Parenthèses, Marseille 2018.
- Deleuze G., *La piega. Leibniz e il Barocco*, Einaudi, Torino 1990; or. ed. *Le pli. Leibniz et le Baroque*, Les Éditions de Minuit, Paris 1988.
- D'Hooghe A., *The Objectification of Infrastructure: The Cultural Project of Suburban Infrastructure Design*, in Stoll K., Lloyd S., *Infrastructure as Architecture. Designing Composite Networks*, Jovis Verlag, Berlin 2010.
- Gali-Izard T. et al., *We, the Roots among You*, in "OASE", 110, 2022, pp. 67-75.

- Ghidoni M., *Editorial*, in "SanRocco", 1, 2011, p. 3.
- Lee C., *Notes on Infrastructural Monuments*, in AA.VV., *Infrastructural Monument*, Princeton Architectural Press, New York 2016, p. 27.
- Metta A., *Il paesaggio è un mostro. Città selvatiche e nature ibride*, Derive Approdi, Roma 2022.
- Pradel C., *La selva come infrastruttura. Strategie per la costruzione di nuove alleanze*, in Marini S., Moschetti V. (edited by), *Sylva. Città, nature, avamposti*, Mimesis, Sesto San Giovanni 2021.
- Protasoni S., *Foreste e arcipelaghi: Nuove figure territoriali degli insediamenti umani*, in Leveratto J., Rocca A. (edited by), *Erbario. Una guida del selvatico a Milano*, Mimesis, Sesto San Giovanni 2022, p. 33.
- Tafari M., *Architecture and Utopia: Design and Capitalist Development*, The MIT Press, Cambridge MA 1979.

POST-INDUSTRIAL SYNANTHROPIA. SPONTANEOUS VEGETATION AND ARCHITECTURAL DECAY
THOMAS CABAI, MICHELE PORCELLUZZI

- Baridon M., *Les jardins: paysagistes, jardiniers, poètes*, Éditions Robert Laffont, Paris 1998.
- Hu X., Lima M.F., *Ecological Value of Abandoned Wild Landscapes in Chinese Cities*, in "The Sustainable City", XIII international conference, WIT Press, Southampton 2019.
- Lu L. H., *Interbreeding Fields 建築繁殖場*, Pap. Taiwan, Taipei 2004.
- Lu L. H. *Interbreeding Fields 建築繁殖場*, Pap. Taiwan, Taipei 2009.
- Pajin D., *Environmental Aesthetics and Chinese Gardens*, in "Dialogue and Universalism", 7, Issue 3/4 *Aesthetics in Practice*, 1997, pp. 51-65. DOI: <https://doi.org/10.5840/du199773/46>
- Vercelloni M., *Installazioni mutanti. L'attivismo progettuale del gruppo Interbreeding Field di Taiwan*, in "Lotus", 124, Editorial People, 2005.

SUPER TOXIC TERRARIUMS. SPERIMENTAL SCENARIOS FOR TOXIC LANDSCAPES
CHIARA PRADEL

- Flanders Darby M., *Unnatural History: Ward's Glass Cases*, in "Victorian Literature and Culture", 35, 2007, pp. 635-647.
- Haraway D. J., *Chthulucene. Sopravvivere su un Pianeta Infetto*, Nero, Roma 2019, or. ed. *Staying with the Trouble. Making Kin in the Chthulucene*, Duke University Press, Durham 2016.
- Lerner S., *Sacrifice Zones. The Front Lines of Toxic Chemical Exposure in the United States*, The MIT Press, Cambridge MA 2010.
- Pearce F., *New Wild. Why Invasive Species will be Nature's Salvation*, Icon, London 2010.
- Peebles J., *Toxic sublime: Imagining contaminated landscapes*, in "Environmental Communication", 5, 2011, pp. 373-392.
- Robertson K., *Plastiglomerate*, in "CSPA Quarterly. Queer Ecologies", 19, 2017/18, pp. 38-44.
- Ward N.B., *On the Growth of Plants in Closely Glazed Cases (1842)*, John Van Voorst, London 1852.

1 METAMORPHOSIS

RIVER IMAGINARIES. THE RENATURATION OF THE PO REGION GIULIA CAZZANIGA

- PNRR - M2C4 INVESTIMENTO 3.3 *Rinaturazione dell'area del Po Programma d'Azione*, 31 marzo 2022 revisione 21 luglio 2022.
- Besse J.M., *Vedere la Terra. Sei saggi sul paesaggio e la geografia*, Bruno Mondadori, Torino 2008.
- Besse J.M., *Paesaggio Ambiente. Natura, territorio, percezione*, DeriveApprodi, Roma 2020.
- Corner J., Maclean A.S., *Taking measures across the American landscape*, Yale University Press, New Haven 2000.
- Da Cunha D., Mathur A., *Mississippi floods: designing a shifting landscape*, Yale University Press, New Haven 2001.
- Da Cunha D., *The Invention of Rivers: Alexander's Eye and Ganga's Descent*, University of Pennsylvania Press, Philadelphia 2018.
- Metta A., *Il paesaggio è un mostro, città selvatiche e nature ibride*, DeriveApprodi, Roma 2022.
- Morton T., *Hyperobjects: Philosophy and Ecology after the End of the World*, University of Minnesota Press, Minneapolis, 2013.

FUCINO: FROM WATER TO LAND VALERIO MASSARO

- Brise A., *The Draining of Lake Fucino: Accomplished by His Excellency Prince Alexander Torlonia*, Propaganda Press, Rome 1876.
- Brise A., de Rotrou L., *Prosciugamento Del Lago Fucino: Fatto Eseguito Da s.e. Il Principe Alessandro Torlonia: Descrizione Storica e Tecnica*, D'Amato S., Palanza U.M. (edited by), Tipolitografia Nobile Paolini, Avezzano, AQ 1983.
- Colapietra R., *Fucino Ieri*. A.R.S.S.A. Avezzano 1998.
- Daston L., Galison P., *Objectivity*, Zone Books, New York 2010.
- De Filippis S., *Il Fucino e Il Suo Prosciugamento*. Studio Bibliografico Adelmo Polla, Avezzano 1893.
- Felice C., *Una Storia Esemplare: Fucino: Bonifica, Riforma Agraria, Distretto Agroindustriale*, Saggine 377, Donzelli editore, Roma 2023.
- Felisini D., *Far from the Passive Property. An Entrepreneurial Landowner in the Nineteenth Century Papal State*, in "Business History", 64, 2, 17 February 2022, pp. 226-238.
- Keogh L., *The Warden Case: How a Simple Box Moved the Plant Kingdom*, in "Arnoldia", 74, 4, 2017, pp. 2-13.
- Linton J., *What Is Water?: The History of a Modern Abstraction*, UBC Press, Vancouver 2010.
- Mitchell T., *Rule of Experts: Egypt, Techno-Politics, Modernity*, University of California Press, Berkeley-Los Angeles-London 2002.
- Montgomery D.R., *Dirt: The Erosion of Civilizations*, University of California Press, Berkeley-Los Angeles-London 2012.
- Moore J. W., *Nature and the Transition from Feudalism to Capitalism*, in "Review" (Fernand Braudel Center) 26, 2, 2003, pp. 97-172.

- Morachiello P., *Ingegneri e territorio nell'età della Destra (1860-1875): dal Canale Cavour all'Agro Romano*, Officina, Rome 1976.
- Morton T., *Dark Ecology: For a Logic of Future Coexistence*, Weltek Library Lectures in Critical Theory, Columbia University Press, New York 2016.
- Parisi R., Pica A., *L'impresa Del Fucino: Architettura Delle Acque e Trasformazione Ambientale Nell'età Dell'industrializzazione*, Edizioni Athena, Napoli 1996.
- Rinaldi A., *Della Demanialità Comunale Del Lago Fucino*, Tipografia Terme Diocleziane, Roma 1893.
- Rivera C. A. de, *Del bonificamento del Lago Salpi coordinato a quello della pianura della Capitanata*, Stamperia e cartiere del Fibreno, Napoli 1845.
- Rivera, C. A. de. *Progetto della restaurazione dello emissario di Claudio e dello scolo del Fucino, del commendatore Carlo Afan de Rivera*, Stamp. del Fibreno, Napoli 1836.
- Rouse H., *History of Hydraulics*, Iowa Institute of Hydraulic Research, Iowa City 1957.
- Scott J. C., *Seeing like a State: How Certain Schemes to Improve the Human Condition Have Failed*, Veritas paperback edition, Yale University Press, New Haven 2020.
- Wood E. M., *The Origin of Capitalism: A Longer View*, Verso, London-New York 2017.

RECLAIMED LANDSCAPES. THE PONTINE MARSHES AS A DESIGN PROTOTYPE FOR A NEW ALLIANCE ALESSANDRO RAFFA, INA MACAIONE

- Antonoli F., *Variazioni relative del livello dei mari*, in "Energia, ambiente e innovazione", 1, 2016, pp. 50-55. <https://www.eai.enea.it/component/jdownloads/?task=download.send&id=436&catid=17&Itemid=101>
- Alvaro C., *Terra nuova. Prima cronaca dell'Agro Pontino* (1935), Adularia Minima, Milano 2008.
- Armiero M., Biasillo R., Graf von Hardenberg W. (edited by), *La natura del duce. Una storia ambientale del fascismo*, Einaudi, Torino 2022.
- Baptist M., van Hattum T., Reinhard S., van Buuren M., de Rooij B., Hu X., van Rooij S., Polman N., van den Burg S., Piet G., Ysebaert T., Walles B., Veraart J., Wamelink W., Bregman B., Bros B., Selnes T., *A nature-based future for the Netherlands in 2120*, Wageningen University & Research, Wageningen 2019. <https://research.wur.nl/en/publications/a-nature-based-future-for-the-netherlands-in-2120> [accessed 15 January].
- Berger A., *Pontine Marshes Wetland Machine*, P-Rex project and MIT, Cambridge, MA 2008. <https://www.alanmberger.com/pontine-marshes> [accessed 15 January].
- Berger A., *Systemic Design can change the World*, SUN, TU Delft 2009.
- Berger A., Brown C., Kousky C., *Five Neglects: Risks Gone Amiss*, in Kunreuther H., Useem M. (edited by), *Learning from Catastrophes: Strategies for Reaction and Response*, Warthon School Publishing, Upper Saddle River, NJ 2010, pp. 83-99.

- Caprotti F., *Malaria and technological networks: medical geography in the Pontine Marshes, Italy, in the 1930s*, in "The Geographical Journal", 172, 2, 2006, pp. 145-155.
- Caprotti F., *Destructive creation: fascist urban planning, architecture and New Towns in the Pontine Marshes*, in "Journal of Historical Geography", 33, 3, 2007, pp. 651-679.
- Cataldo S., Copiz R., Lorito A., Magaudda S., Parente S., Perotto S., Valle N. (edited by), *Rewetland. Wide area programme for improving the quality of surface water in the Agro Pontino by means of natural purification techniques*, Belvedere, Latina 2014. http://www.rewetland.eu/life/news/140612_Pubblicazione-finale-Rewetland.pdf [accessed 15 January].
- Cavallo F.L., *Terre, acque, macchine. Geografia della Bonifica in Italia tra Ottocento e Novecento*, Diabasis, Parma 2010.
- Cooper F., *What is the concept of globalization good for? An African historian's perspective*, in "African Affairs", 100, 399, 2001, pp. 189-213.
- Corboz A., *Il territorio come palinsesto*, in Viganò P., *Ordine sparso. Saggi sull'arte, il metodo, la città e il territorio*, Franco Angeli, Milano 1998, pp. 177-191.
- Corner J., *Ecology and landscape as agents of creativity*, in Thompson G., Steiner F. (edited by), *Ecological Design and Planning*, John Wiley & Sons, New York 1997, pp. 81-107.
- Creswell J. W., *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches*, SAGE, California 2009.
- Davidson N.C., *How Much Wetland Has the World Lost? Long Term and Recent Trends in Global Wetland Area*, in "Marine and Freshwater Research", 65, 2014, pp. 934-941.
- Di Franco A., Giacomini L., Medici C., Raffa A., Zanda C., Zanni F., *Topografie operative. Ricerche, letture e progetti per l'area metropolitana di Roma*, Maggioli, Milano 2018.
- Dogliani P., *L'Italia Fascista*, Sansoni, Firenze 1999.
- Gruppuso P., *Le rane e le spighe. Note sulla retorica fascista delle Paludi Pontine, della Bonifica integrale e della colonizzazione*, Latium, 30-31, 2013, pp. 225-241.
- Metta A., Onorati D., *Modern rural-scape and contemporary ideology: the case of the Pontine Plain*, SHS Web Conf., 63, 6, 12002, 2019.
- Morin E., *Seven complex lessons in education for the future*, UNESCO, Paris 1999.
- Mostafavi M., Doherty G. (edited by), *Ecological Urbanism*, Harvard University Graduate School of Design and Lars Muller Publishing, Baden 2016.
- Nicolescu B., *Manifesto of Transdisciplinarity*, State University of New York Press, Albany 2002.
- Opera Nazionale Combattenti, *L'Agro Pontino*, ONC, Rome 1940.
- Pergher R., *Dalle Alpi all'Africa. La politica fascista per l'italianizzazione delle nuove province (1922-1943)*, Viella, Roma 2020.
- Purini F., *Questioni Pontine*, in "ArchitetturaCittà. Rivista di architettura e cultura urbana", 14, 2003, pp. 41-44.
- Raffa A., *Ecologie della 'lotta alla palude' e paesaggio della bonifica integrale dell'Agro Pontino*, in Raffa A., *Paesaggio ed ecologie della bonifica integrale in Libia*, Accademia Adrianea Edizioni, Roma 2023, pp. 18-30.

- Rosenthal E., *In Italy, a Redesign of Nature to Clean It*, in "New York Times", 21 September 2008
- Sottoriva P.G., *Centri antichi e nuovi nella provincia di Latina*, CIPES, Latina 1977.
- Waldheim C., *Landscape as Urbanism. A general theory*, Princeton University Press, Princeton, New Jersey 2016.
- World Bank, *A Catalogue of Nature-based Solutions for Urban Resilience*, World Bank Group Washington, D.C. 2021. <http://hdl.handle.net/10986/36507>

GREEN-COVERED: THE SINT-PIETERSBERG AS A TERRARIUM OF CULTURES KEVIN AMENDT, CHIARA CARAVELLO, RITA OCCHIUTO

- Amendt K., *De afgraving van de Sint Pietersberg en een ingangspartij zuidelijk van Lichtenberg*, in "SOK Mededelingen", 53, July 2010, pp. 22-47.
- Diederer J., *Het landschap van de onderaardse mergelgroeven*, in "SOK Mededelingen", 1, October 1982.
- European Commission, *European Landscape Convention*, Florence 2000.
- Fromont F., Desvigne M. (edited by), *Territoires en projet: Michel Desvigne paysagiste*, Birkhäuser, Basel 2020.
- Lassus B., *La relation construit-site*, in "Aménagement et Nature", 63, 1981, pp. 1-4.
- Majoor, G.D., O.P.J.H. Op den Kamp, T. de Jong-van Heusden, M.J.M. Martens, and R.H.J. Erkens (Edited by), *Natuurlijk Maastricht. Compacte stad in een weids landschap*, Stichting Natuurpublicaties Limburg, Maastricht 2020.
- Morton, T., *Ecology without Nature: Rethinking Environmental Aesthetics*, Harvard University Press, Cambridge, Mass 2007.
- Nieste A., *Van mergel tot cement: 70 jaar ENCI, 1926-1996*, Stichting Historische Reeks Maastricht, Maastricht 1996.
- Occhiuto R., *What the ground says...*, in "Sustainability", 13, 23, 2021. <https://doi.org/10.3390/su132313420>
- Puts C., *Montagne Saint-Pierre. Refuge naturel*, Edition de l'échevinat de l'environnement de Visé et de l'A.S.B.L. "Sauvegardeet avenir de la Montagne Saint-Pierre et de la Basse-Meuse Liégeoise", Liège 1984.
- Repton H., *The Red Book of Hatchlands* in Surrey [sketchbook], 1800.
- Rosier S., *An Encounter with Stone. Designing with the Aesthetic Force of Post-Mining Landscapes*, in "Journal of Landscape Architecture", 17, 2, May 4, 2022, pp. 16-29. <https://doi.org/10.1080/18626033.2022.2156098>
- Silvertant J., *Caestert: een mijnbouwarcheologische erfgoed site*, Scientific report of the Institute Europa Subterranea 3, Institute Europa Subterranea, Valkenburg aan de Geul 2010.
- Societe Archeo-Historique de Visé et de sa region, Ville de Visé - Echevinat de l'environnement (edited by), *De la basse Meuse a la Sambre - Patrimoine Industriale, Vol. 1: Textes d'histoire industrielle. Numero special des notices visetoises*. Publié avec l'aide de la Deputation Permanente de la Province de Liège, Visé 1985.

- van Schaik D.C., *DE SINT PIETERSBERG. Met een aanvullend gedeelte van 1938-1983*, EF & EF b.v., Thorn 1983.
- Willems L., Rodet J., *Karst and Underground Landscapes in the Cretaceous Chalk and Calcareenite of the Belgian-Dutch Border—The Montagne Saint-Pierre*, in Demoulin A. (edited by), *Landscapes and Landforms of Belgium and Luxembourg*, Springer International Publishing, Cham 2018, pp. 177-192. https://doi.org/10.1007/978-3-319-58239-9_11
- Rotterdam skyline, in "The Guardian", November 2021. <https://www.theguardian.com/artanddesign/2021/nov/12/slapstick-architecture-ikea-salad-bowl-rotterdam-depot-boijmans-van-beuningen> [accessed 15 January].
- Young J.E., *The texture of memory: Holocaust memorials and meaning*, Yale University Press, New Haven 1993.
- Zaera-Polo A., *Well Into the 21st Century. The Architectures of Post-Capitalism?*, in "El Croquis", 187, 2016, pp. 252-287.

ABOVE THE ROOF. DESIGNING SECOND CHANCES
FRANCESCA ZANOTTO

- Aureli P. V., *The Theology of Tabula Rasa: Walter Benjamin and Architecture in The Age of Precarity*, in "Log", 27, Winter/Spring 2013, pp. 111-127.
- Bjarke Ingels Group, *Yes is More: An Archicomic on Architectural Evolution*, Evergreen, Köln 2009.
- Covatta A., *From infrastructure to playground: the playable soul of Copenhagen*, in "Journal of Urban Design and Mental Health", 5, 3, 2018.
- Dubinina A., Wawrzyńska A., Krośnicka K.A., *Permeability of Waterfront - Contemporary Approach in Designing Urban Blue Spaces*, in "Sustainability", 14, 9357, 2022.
- Jakob M., *Faux Mountains*, ORO Editions, San Francisco 2022.
- Kall A.-S., Ford R., Schick L., *The power of stories*, in Maguire J., Watts L., Winthereik B. R. (edited by), *Energy Worlds in Experiment*, Mattering Press, Manchester 2021, pp. 34-65
- Koolhaas R., *Delirious New York. A Retroactive Manifesto for Manhattan*, Oxford University Press, New York 1978.
- Liebs H., *High Life - MVRDV*, in "Frieze", 54, Sept-Oct. 2000. Accessible at: <https://www.frieze.com/article/high-life>.
- Lloyd-Smith H., *Snohetta unveils Europe's first underwater restaurant in Norway*, in "Wallpaper", October 2022. <https://www.wallpaper.com/travel/snohetta-under-restaurant-baly> [accessed 15 January].
- Mikolajska I., Haupt P., *Oslo Revitalization Areas as an Example of Striving for Good Quality of Urban Environment*, in *IOP Conference Series Materials Science and Engineering*, IOP Publishing, 2019.
- Mumford L., *The Culture of Cities*, Harcourt Brace Jovanovich, Publishers, New York 1938.
- MVRDV, *FARMAX: Excursions on Density*, 010 Publishers, Rotterdam 2006.
- MVRDV, *Expo 2000: From Utopia to Dystopia*, 2006. http://3dok.nl/index_ajax.php?cid=64 [accessed 15 January].
- MVRDV, Homepage, 2023. <https://www.mvrdv.com/> [accessed 15 January].
- Owen D., *The Psychology of Space*, in "The New Yorker", January 21, 2013.
- Pozo Gil M., *Wild City: MVRDV - Weaving Nature and the Urban*, in "Architectural Design", 83, 3, 2013, pp. 48-55.
- Riedler R., *Fake Holidays*, Moser, Munich 2009.
- Wainwright O., *Slapstick architecture: how a €3.99 Ikea salad bowl became part of the*

HASSAN AHMED

Hassan (Beybe) Ahmed is a Maldivian environmentalist and coral scientist. In 2007, he founded the NGO "Save the Beach Maldives". Since then, he is fighting for an ecologically sustainable development of the country, involving local communities and schools. In 2014 he started his first coral restoration project. He led projects on different islands and organised the very first coral relocation in the Maldives (2016). He believes that only through information and knowledge the community will be able to protect and preserve its natural heritage. His aim is to grow back entire reefs and restore their ecological role lost due to climate change and coastal development.

KEVIN AMENDT

Kevin Amendt is an independent researcher engaged in the study of underground quarries, their role in today's landscape and their preservation. Member of the "Studiegroep Onderaardse Kalksteengroeven", "vzw Hulpdienst Groeven" and founder of "Onderzoeksbureau MGL", he advises public and other organisations in the border region Liège (BE) - Limburg (NL/BE).

MARGHERITA AUTORINO

Born in Rome in 1997, curious explorer and patient creative, third of four children. After classical high school, she enriched her university course with two years abroad, practicing drawing at FAUP in Porto and ecology at ENSP in Versailles-Marseille, and on-site internships with Wagon-Landscaping and the Botanical Garden of Rome. In 2023, she graduated with honors in Architecture - Urban Design at Roma Tre, guided by A. Metta, presenting with C. Condemi Maglia Boscata, a landscape architecture thesis on the material and immaterial, microscopic and cosmic geographies of the Magliana Stream.

ANNALISA AZZOLA

Annalisa Azzola is a marine ecologist and research fellow at University of Genoa. She finished her PhD in Marine Science and Technologies in 2023. Her research topics include characterization, monitoring, and assessment of the ecological status and change over time of coastal ecosystems. Part of her research also focuses on assessing local and global anthropogenic impacts. Her studies are based on scientific diving techniques, including visual field surveys and photographic sampling.

BEATRICE AZZOLA

Beatrice Azzola is an architect and academic researcher. She worked in several architecture firms in Italy, Portugal and Switzerland. In 2021 she started her PhD on Italian highway architecture and landscape. She also works on the disciplinary interferences between architecture and ecology.

GINO BALDI

Architect, in 2020 founded in Bergamo with Serena Comi, Vacuum Atelier, an architecture and design studio, winner of architecture awards for young architects and architecture competitions. He holds a doctorate in architectural composition (PoliMi - AUID) (2019 -). Participates in academic conferences in Italy and abroad such as CA2RE Milan and Ljubljana (2020-21) and Conceptual Design of Structures in Zurich (2021), Workshop Urban regeneration and Industrial heritage EPFL - Lausanne (2023)

MATTIA BALDINI

Mattia Baldini is an architect, founder and member of Fuoriformato Architettura, and PhD researcher in Architecture. Theories and Design (cycle XXXVIII, SSD: ICAR/14) at La Sapienza, University of Rome. He has conducted research in Italy (Florence, Rome) and abroad (ETSA in Seville). The main field of research application concerns the relationship between the theoretical pretexts of design and their applications in compositional practice.

NADIA BERTOLINO

Nadia Bertolino, PhD, is an architect, writer and educator concerned with ethical design practices in response to socio-spatial inequalities and environmental emergency. She is Assistant Professor in Architectural and Urban Design at the University of Pavia. Formerly, Nadia coordinated the Master's Degree in Architectural Design at Sheffield School of Architecture and she was Senior Lecturer in Architectural Theory and Department Head of Equality, Diversity and Inclusion at Northumbria University, Newcastle.

FEDERICO BROGGINI

Federico Brogginì is architect graduated at Accademia di Architettura di Mendrisio. Since his early experiences he focused on urban and landscape design, in particular dealing with soil and water management concerns. He is part of Latitude Platform for Urban Design and Research. In 2022 he started a PhD in landscape architecture at RomaTre University. The thesis explores the world of urban soils, in particular sealed soils by asphalt, investigating their intrinsic values and potentialities in landscape design practices.

THOMAS CABAI

Thomas Cabai is an Italian architect and Ph.D. candidate at the Department of Architecture and Urban Studies (DASTU) at Politecnico di Milano, where he is also a teaching assistant in the Landscape and Infrastructure Design Studio. His main research interest lies within the relationship between ecology and built environment in anthropic territories. He is part of the National Biodiversity Future Center and is currently working on several projects of Restoration Ecology and Phytoremediation in the Metropolitan City of Milan, Tuscany and Friuli Venezia Giulia.

CHIARA CARAVELLO

Chiara Caravello is a PhD candidate in architecture in a double programme between the University of Liège (BE) and Politecnico di Milano (IT). Awarded with a FNRS fellowship, she is carrying out her research on underground quarries in the cross-border area of the 'Three Countries Park' in the Euregio Meuse-Rhine (BE-NL-DE).

GIULIA CAZZANIGA

Architect and researcher, Giulia Cazzaniga holds a PhD in Landscape and Environment from Sapienza Università di Roma. Her research focuses on the impact of representation on the perception of landscape and its influence on the design of future transformations. Recently, she has applied this reflection to the River Po basin. She is part of the research team financed by Enel Green Power focusing on the decommissioning of solar power plants and she is currently a research fellow at the Politecnico di Milano where she teaches Landscape Architecture design.

AMINA CHOUAIRI

Amina Chouairi is a PhD student in Urbanism at Università Iuav di Venezia and holds a Master of Science in Landscape Architecture from Delft University of Technology. Since 2019, she has been researching and working on the Venetian Lagoon complex transitional territory, exploring the debated relations among its cultures and natures. Crucial for her is the understanding of the agency of the bare landscape - the brackish marshes, i.e. the ignition point from which to rethink the Venice-in-a-lagoon system.

FELICE CIMATTI

Felice Cimatti teaches "Semiotica e teoria dei linguaggi" at the 'Università della Calabria.

PIETRO CONSOLANDI

Pietro Consolandi is a researcher and artist based in Venice, where he co-founded the Barena Bianca collective in 2018. He is a research fellow at THE NEW INSTITUTE Centre for Environmental Humanities (NICHE), Ca' Foscari University, inquiring about the possibility to implement the Rights of Nature in the Venetian Lagoon from a cultural point of view. He also collaborates with art and ecology foundation TBA21-Academy since 2020, where he develops various collaborative didactic initiatives as OCEAN / UNI Research Lead.

CASSANDRA COZZA

Cassandra Cozza, architect, PhD, is Lecturer and Assistant Professor in Architectural and Urban Design at the Department of Architecture and Urban Studies, Politecnico di Milano. Her research topics focus on contemporary paradigms of architectural and urban design studying changes with a design approach aimed at enhancing both spatial relationships and contexts. She is a member of the scientific editorial board of the magazines Territorio (Franco Angeli) and Ardeth (Rosenberg & Sellier).

SASKIA DE WIT

Saskia de Wit is landscape architect and assistant professor at the Section of Landscape Architecture, Delft University of Technology. She designs gardens and landscapes at her office Saskia de Wit tuin en landschap. Her research focuses on the garden as a core concept of the field of landscape architecture: the concept of the garden is used as a lens for further research into site-specificity, the sensory perception of place, urban landscapes, leftover spaces and urban forestry.

DAMIANO DI MELE

Damiano Di Mele, architect, PhD candidate at the Sapienza University of Rome in international co-tutorship with the Universidad Politécnica de Madrid (UPM). Graduated cum laude from the Iuav University of Venice after a period of training in Spain. His current research is focused on the analysis of themes related to the history and criticism of contemporary Spanish architecture in the relationship between figurativeness and structure. He participates in research activities in the GIPC group (Grupo de Investigación en Paisaje Cultural) at the Proyectos Arquitectónicos department of the Escuela Técnica Superior de Arquitectura de Madrid (ETSAM), where he has been a visiting doctoral researcher since 2022.

SARA FAVARGIOTTI

Sara Favargiotti is Associate Professor at the University of Trento, DICAM. Her research investigates the multiple identities of landscapes through applied research at different scales, focusing on fragile territories, emerging infrastructure, adaptive dynamics and regenerative design. Local coordinator of project B4R. Branding for Resilience (PRIN, 2020-2024), member of the Directive Board of IASLA (since 2018), she is co-founder and scientific advisor of the innovative startup RUMA S.r.l. SB.

MARCO FERRARI

Marco Ferrari is a researcher at the University of Trento, DICAM and adjunct Professor of Architectural Design Theory at the University of Ferrara. He is project leader of PaesaggiForti project and partner and co-founder of the artistic duo AIDEL. He is particularly interested in contemporary architectural and landscape theory and in revealing the relationship between bodies, ecologies and space, questioning concepts of domesticity and intimacy in both living environments and landscape.

ANDREA FOPPIANI

Andrea Foppiani is a PhD candidate in Architectural, Urban, and Interior Design from the DASTU department at Politecnico di Milano, where he graduated with honors in Sustainable Architecture and Landscape Design. His research focuses on post-logistics landscapes in the Po Valley, working through more-than-human ecologies to explore future hybrid scenarios. He is an academic tutor in design studios and is part of the Landscape Off[f] Limits International Workshop's organization team.

HERMANO LUZ RODRIGUES

Hermano Luz is a designer from Brazil and a PhD researcher in Creative Technologies at the University of Galway. He received a Master's in Design Studies degree from the Harvard Graduate School of Design, where he was a curator of the GSD Kirkland Gallery. He has exhibited and published internationally as an artist and contributed to several technological art projects. In his practice, he mixes iconic cultural heritage with contemporary digital media to inspire participatory creative practices.

INA MACAIONE

Ina Macaione, associate professor at DiCEM_Unibas, coordinates the Phenomenology of Architecture Design course. She is scientific coordinator of the NatureCityLAB. Her research is on the issues of urban regeneration, starting with the transformations of architecture, city and landscape in the process of ecological transition and Climate Change.

VALERIO MASSARO

Valerio Massaro is an architect and academic and a PhD candidate at the AA School of Architecture. He holds a degree in architecture from the University of Florence and an MPhil from the AA School (Projective Cities). He taught Design and History and Theory in several institutions, including London South Bank University, the Royal College of Art and the University of Greenwich.

DAVIDE MONTANARI

Davide Montanari graduated with honors in Sustainable Architecture and Landscape Design from Politecnico di Milano where he is currently doing a PhD in Architectural, Urban, and Interior Design. His research focuses on the practices of appropriation of water within the Po River Basin to unveil protocols of exploitation and investigate future visions through the image of cyborg landscapes. He works as tutor in design studios and is member of the Landscape Offfj Limits International Workshop's organization team.

LAURA MUCCIOLLO

Laura Mucciolo, architect, is Ph.D. st. in Architecture. Theories and Design, Sapienza University of Rome. In 2022, she exhibits the ephemeral design With Mies van der Rohe into a New World (Neue Nationalgalerie) during the Hypercomfort SS by S. Bru (BRUTHER). In the year, she was guest curator with Michelangelo Pivetta and Giacomo Razzolini of the touring exhibition Isolario Venezia Sylva (curated by Sara Marini) at Dept. of Architecture in Florence. She publishes Terzo Paradiso (Libria, 2023).

SILVIA MUNDULA

Silvia Mundula is a PhD candidate at the Politecnico di Milano and a garden designer. After completing her Master's degree in Architecture in Milan, she gained a Master's degree in History and Critical Thinking at the Architectural Association in London, where she developed her interest in the theory of gardens. Her research investigates the cultural principles and the design outcomes of contemporary wild oriented planting design in Europe.

VALENTINA NOCE

Valentina Noce is an architect and researcher based in Milan (Italy). She is the founder of architectural office Sabotage Practice. She is completing a PhD in Architecture Interior and Urban Design at Politecnico di Milano, where she's also collaborating in teaching activities. Bridging the realms of architectural practice and academic research, her work delves into the intersections between space and technology.

RITA OCCHIUTO

Rita Occhiuto is Professor Director of the "Lab. Ville-Territoire-Paysage" within the Research Unit in Architecture at the Faculty of Architecture, University of Liège (BE). She is member of the "PhD School in Architecture and urban planning" and of the Lepur "Research Center in Sciences of City, Territory and Rural Environment" (University of Liège), and Founder Member of "UNISCAPE - European Network of Universities for the implementation of the European Landscape Convention".

ANDREA OLDANI

Andrea Oldani is an assistant professor of Landscape Architecture at the Department of Architecture and Urban Studies at Politecnico di Milano, where he is faculty member of the School of Architecture, Planning and Construction Engineering. He earned a Ph.D. in Architectural and Urban Design from the Department of Architecture and Planning. His researches on the landscape of contemporary infrastructure, are documented by a consistent number of scientific publications. Oldani curated seminars, exhibitions and editorial works.

IRENE PANCAZZI

Irene Pancrazi is a marine biologist specialising in tropical environments and their restoration. In 2016 she started to work for the NGO "Save the Beach Maldives", after witnessing a bleaching event in the Maldives and feeling the urge to take action. Since then, she was in charge of the set-up and the research protocol of various coral restoration projects. She collaborates with various Italian universities, tutoring students and supporting scientific research. Today she is one of the project managers at the NGO and shares the same dream as its founder: to grow back the whole reef and see it thrive.

MARIANA PEREIRA GUIMARÃES

Mariana Pereira Guimarães is an architect-engineer from Brazil and PhD Candidate in Politecnico di Milano's Architecture, Urban and Interior Design program. Mariana was a Marie-Curie EID-ITN research fellow within the SOLOCLIM programme (ID 861119) studying innovative outdoor water-cooling solutions such as fountains and water mists that can respond to extreme urban heat. She received a Master's in Urban Planning and Public Health from Harvard University focused on Human Health and Sustainability.

MICHELANGELO PIVETTA

Michelangelo Pivetta, graduated from IUAV University of Venice, PhD and Associate Professor in Architectural Design in the Department of Architecture of University of Florence. The field of application of the theoretical research is the project and its manifestation through the ephemeral balance between technique, construction and form. He writes essays and books addressing in parallel the didactic and professional activities as experimental opportunities for perennial and necessary verification.

MICHELE PORCELLUZZI

Michele Porcelluzzi is an architect and PhD candidate in Architectural, Urban and Interior Design at DASTU, Politecnico di Milano, in collaboration with the National Biodiversity Future Center. His research interest is focused on the concept of collectiveness in architectural and urban design. He is a founding member of the research project Assume There's a Landscape. His research activity has been published in journals including OASE (2022) and Die Architekt (2023) and exhibited at IABR 2022 in Rotterdam.

CHIARA PRADEL

Chiara Pradel, PhD Arch. (Politecnico di Milano, 2022), is a Landscape Architect and Post-doc researcher at TU Delft, Faculty of Architecture and the Built Environment. Her research explores ground movements originated by building activities, mainly focusing on material culture, reuse and circular baukultur. She lives and works between Milan (Italy) and Delft (Netherlands).

SARA PROTASONI

Sara Protasoni, Head of the M.Sc. in Sustainable Architecture and Landscape Design Politecnico di Milano - Piacenza Campus, is Full Professor of Landscape Architecture and member of the Board of the PhD Program in Landscape Architecture at La Sapienza University in Rome. At the Politecnico di Milano she combines teaching with an intense activity of design and theoretical research on landscape. She is the author of several monographs and over a hundred essays published in books and journals in the field.

ALESSANDRO RAFFA

Alessandro Raffa, architect PhD, is assistant professor PON R&I FSE-REACT EU at DiCEM_Unibas; member of NatureCityLAB and UNESCO Chair on Mediterranean Cultural Landscapes research groups. PhD at DASTU Politecnico di Milano, research fellow Sven-Ingvar Andersson at Benetton Foundation (2020) and post-doc researcher at DAD Politecnico di Torino (2021). He is currently Fulbright Visiting Scholar at University of Florida, College of Design, Construction and Planning and Florida Institute for Built Environment Resilience.

GIACOMO RAZZOLINI

Giacomo Razzolini architect, founder and member of architecture firm filoferro architetti. He is teaching tutor at the Department of Architecture of the University of Florence. He was a research fellow at the University of Florence and Pavia for projects dealing with different themes. In 2022, he was guest curator with Michelangelo Pivetta and Laura Mucciolo of the touring exhibition Isolario Venezia Sylva (curated by Sara Marini) at Dept. of Architecture in Florence.

ALESSANDRO ROCCA

Alessandro Rocca is an architect, a professor of architecture and the Head, for the period 2019-24, of the Ph.D. program of Architectural Urban Interior Design (www.auid.polimi.it) at the Department of Urban Studies of Politecnico di Milano. His recent research develops within the program of national interest (PRIN) "SYLVA - Re-think the sylvan: Towards a new alliance between biology and artificiality, nature and society, wildness and humanity" and the Ca2re European Consortium for design-driven research.

KEVIN SANTUS

Kevin Santus is an Architect, Research Fellow and Ph.D. candidate at the Politecnico di Milano (Italy) in Architecture, Urban, and Interior Design. He won an interdisciplinary grant (2020-2024) to study the design transition facing climate fragilities and its impacts on the morpho-typological aspects of the project. Besides he is a Research Consultant at the Brookfield Sustainability Institute in Toronto and contributor in DOMUSweb.

SARA ANNA SAPONE

Sara Anna Sapone is an Architect, Ph.D. candidate and Research Fellow at Politecnico di Milano. Here she was involved in teaching and research activities, such as the program G124 promoted by Renzo Piano on Italian peripheries. Meanwhile, she worked in Milan-based architecture firms, addressing urban renewal and architectural design. Since 2020, she's developing her doctoral research "Precision Wildland" within the AUID program at PoliMi and a research stay at the Landscape architecture section of TU Delft, funded by the Idea League Grant.

GERARDO SEMPREBON

Gerardo Semprebbon, PhD architect, is Assistant Professor in architectural and urban design at the Department of Architecture and Urban Studies (DASTU) of the Politecnico di Milano. Holder of two Ph.D. titles, SJTU + PoliMi, in 2019, he has been a visiting scholar at the BUCEA. The core topic of his research covers architectural strategies of revitalization in complex settlement systems, with specific focuses on Chinese and Italian cities and territories.

GIULIA SETTI

Giulia Setti, architect, Ph.D., is an Assistant Professor of Architectural and Urban Design at Politecnico di Milano, Department of Architecture and Urban Studies. In 2022, she published a typological study of the stepwells in Ahmedabad, India. Her research focuses also on reusing industrial architecture. She worked in the Territorial Fragilities project led by DASTU – Department of Excellence 2018-2022. In 2014-2015, she developed research activities at CEPT University, Ahmedabad, India.

CHIARA TOSCANI

Chiara Toscani is an architect, educator and researcher based in London. She is currently a PhD candidate at the AA School in London in History and Critical Thinking in Architecture. She got her first PhD in Architectural and Urban Design at the Politecnico di Milano and was awarded a postdoctoral research fellow in 2010. She taught urban and architectural design at the Politecnico di Milano, tutored at AA Summer School and Ravensbourne University. Author of essays and books. For a decade, she worked as a senior architect at Cino Zucchi Architetti.

JO VAN DEN BERGHE

Jo Van Den Berghe, architect (Sint-Lucas School of Architecture 1984) with a critical reflective practice since 1986. PhD, RMIT University Melbourne 2012. Teaching experimental architectural design, KU Leuven Faculty of Architecture, where he is developing innovative drawings as the indispensable locus between Techné and Poiesis. Program director KU Leuven Faculty of Architecture 2017-2022. Visiting professor at Politecnico di Milano, EPFL Lausanne, Queen's University Belfast.

FRANCESCA ZANOTTO

Architect, PhD, she is Assistant Professor of Architectural Design at the Department of Architecture and Urban Studies of Politecnico di Milano, where she works on ecological implications of architectural design within the National Biodiversity Future Center. In 2021 and 2022 she was Research Fellow within the Integral Design Environment Research Infrastructure (I.r.ide) – Center for Publishing Actions and Research Development (Pard) at Università Iuav di Venezia, taking part in the scientific activity of national research PRIN "Sylva".

In the same serie

✦ Sara Marini (a cura di), *Nella selva. XII tesi*, 2021.

∞ Sara Marini, Vincenzo Moschetti (a cura di), *Sylva. Città, nature, avamposti*, 2021.

∩ Alberto Bertagna, Massimiliano Giberti (a cura di), *Selve in città*, 2022.

Λ Sara Marini, Vincenzo Moschetti (a cura di), *Isolario Venezia Sylva*, 2022.

∩ Jacopo Leveratto, Alessandro Rocca (a cura di), *Erbario. Una guida del selvatico a Milano*, 2022.

⊥ Fulvio Cortese, Giuseppe Piperata (a cura di), *Istituzioni selvagge?*, 2022.

✦ Sara Marini (a cura di), *Sopra un bosco di chiodi*, 2023.

∥ Egidio Cutillo (a cura di), *Bestiario. Nature e proprietà di progetti reali e immaginari*, 2023.

∩ Andrea Pastorello (a cura di), *Selvario. Guida alle parole della selva*, 2023.

✦ ∩ Marco Brocca, Micol Roversi Monaco (a cura di), *Diritto e città "verde"*, 2023.

✦ ✦ Luigi Latini, Lorenza Gasparella (a cura di), *Coltivare la selva*, 2023.

✦ ∞ Stamatina Kousidi (a cura di), *Forest Architecture. In Search of the (Post) Modern Wilderness*, 2024.

✦ ∩ Elisa Monaci, *Toscanità. Le architetture di Vittorio Giorgini*, 2024.

✦ Λ Luca Zilio, *La montagna di Ermenegildo Zegna*, 2024.

✦ ∩ Giacomo Spanio, *Spazio e società. La rivista di Giancarlo De Carlo tra progetto e prospettive*, 2024.