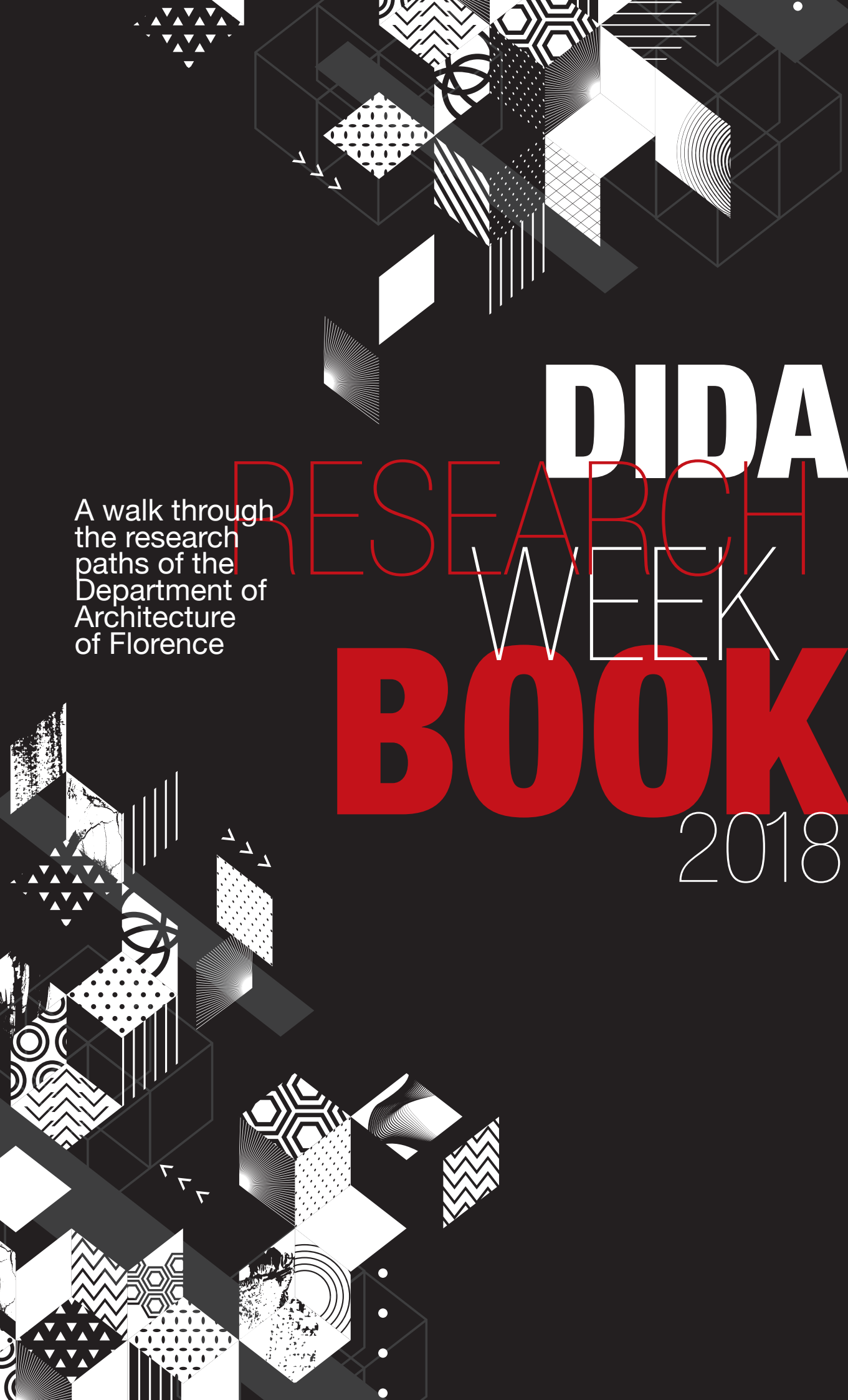




A walk through
the research
paths of the
Department of
Architecture
of Florence

DIDA RESEARCH WEEK BOOK 2018



UNIVERSITÀ
DEGLI STUDI
FIRENZE

DIDA
DIPARTIMENTO DI
ARCHITETTURA

graphic design

didacommunicationlab

Dipartimento di Architettura
Università degli Studi di Firenze

Susanna Cerri
Stefania Aimar
Federica Giulivo
Simone Spellucci



didapress

Dipartimento di Architettura
Università degli Studi di Firenze
via della Mattonaia, 8 Firenze 50121

© 2019
ISBN 9788833380629

Printed on pure cellulose paper *Fedrigoni Arcoset*

ELEMENTAL
CHLORINE
FREE
GUARANTEED





In February 2018, the Department of Architecture of the University of Florence (DIDA) promoted an open and public analysis and evaluation of the research carried out by the Department during its first five years of existence in order to define its strategy, the relationship with third and second cycle education, the role of experimental research and the DIDA-LABS laboratory system, as well as of research units and inter-university research centers.

The objective of the DIDA Research Week, through the documentation, communication and evaluation of the activities carried out by the Department in national and international research projects or in individual or exploratory projects, is an analysis and an in-depth reflection on the research activities at all levels carried out during the first five years of the Department: a wide and transparent reflection which communicates what the research carried out by DIDA is in all its different forms, calling the most qualified colleagues in Florence, Italy and abroad to discuss and to evaluate it and to contribute to the identification of future goals, strategies and actions.

The transparency strategy in scientific communication developed by the Department plays a central role not only concerning the dissemination of knowledge but above all for the effective evaluation by the entire scientific community, certainly more effective than the current assessment procedures. The increasingly international dimension of research and education requires the maximum possible transparency and accessibility of research results.

The Department's commitment to supporting scientific journals, the DIDAPress publishing, the Communication Laboratory and the first DIDA Research Week itself aims to meet this need.

TABLE OF CONTENTS

INTRO

DIDA Research Week. Overview of DIDA research environment from 2013 up to 2018	15
Saverio Mecca	
Map 1 Research Map	18

DIDA RESEARCH STRATEGY | A general view

Projects and relations between fields of knowledge	23
Giuseppe Lotti	
Towards an innovative doctorate	27
Giuseppe De Luca	
Didalabs. Clusters and applied research	31
Giorgio Verdiani	
Map 2 DIDA labs. Inside Research	34
Understanding research through communication. Concept, methodologies and tools of DRW	37
Susanna Cerri	
Setting Connections. Inter-university Centres	41
Roberto Bologna, Paola Gallo	
Map 3 Internationalisation of research	44

DIDA RESEARCH MAP | 2013-2018 47

DIDA Research Systems 55

Inter-university centres ABITA_CIST_TESIS	57
ABITA	
TESIS	

Laboratories 97

A&P - Architecture & Project cluster 99

Architecture and Auto-construction | LAA

Prato Laboratory | Laboratorioprato

Technologies for the Mediterranean Area Laboratory |TAM Lab

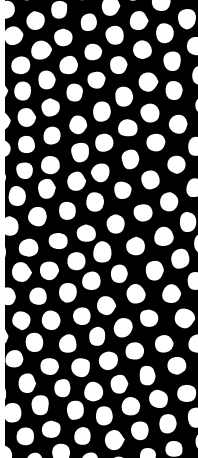
Theatre | Architecture Laboratory | TEARC Lab

Urban Design Laboratory | UD

AHCV - Architectural Heritage Conservation and Valorisation cluster	113
Architectural Heritage Restoration and Conservation LARC	
Architectural Survey Laboratory LRA architecturalsurveylab	
Cultural Heritage Management Laboratory CHM_Lab	
Heritage City Laboratory Heritage City_Lab	
Materials and Structures Testing Laboratory LPMS	

DSI - Design and Sustainable Innovation cluster	143
Communication Laboratory didacommunicationlab	
Design for Kids	
Italian Design for the train DIT lab	
Ergonomics & Design Laboratory LED	
Modelling Laboratory for Design LMD lab	
Multimedia Architecture Interaction Laboratory mailab	
Reverse Engineering Interaction design Rei Lab	
Sustainable Design Laboratory sustainabilitylab	
ICT - Information Communication Technologies cluster	189
Informatic Laboratory of Architecture informaticlab - LiA	
Cartography Laboratory LCart	
Photography Laboratory LfA	
Architectural Model Laboratory LMA	
Architecture Video Laboratory VI.D.A. lab	
TEL - Territories, Ecosystems and Landscapes cluster	205
Critical Planning & Design	
Laboratory of Sociological Research on Design, Architecture and Planning LabSo	
Landscape Design Lab	
Laboratory of Ecological Design of Settlements LaPEI	
Plans and Projects for the City and the Territory PPCT	
Regional Design Lab	
PhD Programs	241
Architectural and Environmental Survey and Representation	
Design	
History of Architecture and the City	
Landscape Architecture	
Technology of Architecture	
Urban and Regional Planning and Design	
Research Units	305
Cities and Regions Across Local Boundaries A.VAST Area Vasta	
COmmunities REsilience CORE	
Documentation and Management of Small Historical Settlements DM_SHS	
Exploring Landscape Architecture ELA eu.med.	
Florence Accessibility Lab FAL	
Heritage and Euro-Mediterranean Design Dar_Med	
International Group on Urban and Architecture Design INTEGRO_UAD	
Landscape, Cultural Heritage. Project PPcP	
Local and Indigenous Knowledge Systems and Innovation INN-LINK-S	
Projects on Environment, Cities and Territories in the South ProjECTS	
Urban Bioregion Project PROBIUR	
Sustainable Urban Projects & Research SUP&R	
Technology for the Project TxP_R	

Scientific Journals	345
Firenze Architettura	
Contesti	
Territori	
Scienze del Territorio	
Opus Incertum	
Ri-Vista	
DIDA Research Programs	359
A&P - Architecture & Project	363
Architecture & Project	346
AHCV - Architectural Heritage Conservation and Valorisation	485
Architectural and Environmental Survey and Representation	486
Conservation of Architecture and Cultural Heritage	572
History of Architecture and the City	604
Materials and Structures	648
DSI - Design and Sustainable Innovation	697
Design	698
Technologies of Architecture	714
TEL - Territories, Ecosystems and Landscapes	745
Landscape Architecture	746
Urban and Regional Planning and Design	752



The Culture of Urban Design

Triennial research, 2013_2015

Scientific Coordinator

Antonio Capestro

Research Group
Fulvio De Carolis
Riccardo Monducci
Cinzia Palumbo
Nicola Marmugi

Partnership
CISDU-Centro
Internazionale di Studi
sul Disegno Urbano
(International Centre for
Studies in Urban Design)

Keywords
Progetto Urbano
Urban Design
Sistemi urbani
Disegno Urbano

Cultura del Progetto Urbano – Culture of Urban Design is the title of an Academic Research carried out during the 2013/2015 three-year period that, building on and developing previous researches, investigates the relationship between some of the main urban systems (settlement systems, mobility systems, naturalistic systems) and inhabited environment, with the purpose of figuring and outlining visions and strategies for the contemporary city in its many aspects, and of building new possible scenarios for the community. The Research is developed through specific thematic channels, defined by three main binomial terms, complementary and interdependent:

ARCHITECTURE AND CITY - includes themes concerning the identification of new architectural functional and semantic categories in relationship with the environment.

Keywords: contamination, hybridisation, urban fabric, emergence.

NATURE AND CITY - includes themes concerning natural systems at different scales in relationship with the city and its territory.

Keywords: ecological culture, sustainability, natural and artificial ecosystem.

INFRASTRUCTURE AND CITY - includes themes concerning the role of infrastructure in urban renewal, starting from the assumption that these may generate new urban realities for the contemporary city and trigger new strategic urban forms.

Keywords: innovation, speed, continuity, fluidity, rhythm, dynamism.

The research has been carried out in specific contexts through Protocol agreements, Program agreements, Agreements and Research grants signed in partnership with private and public Institutions.

Projects have been elaborated through design laboratories, thematic seminars, workshops and theses. It has been disseminated through conferences, exhibitions and publications.

ARCHITECTURE AND CITY

Publications

Capestro, A. 2016. *Architecture of relationships*. In: P. Laudati, K. Zreik (Edited by). *City Temporalities*.

Capestro A. 2013. *Paesaggi urbani*. In: AA VV., *Architettura & Città: Competitions*.

Conferences

A. Capestro, *FIRENZE_Una visione per il futuro*. FIRENZE 2020_DISCUSSIONE APERTA SUL NUOVO REGOLAMENTO URBANISTICO. Salone Brunelleschi - Palagio di Parte Guelfa, Firenze, 2014.

A. Capestro (edit by), *FIRENZE*. Palazzina Reale, Piazza stazione SMN – Firenze, 2016.

Exhibitions

Chinese Contemporary Architecture, International exhibition, L. Xiangning (edit by) with: A. Capestro, M.C. Torricelli, L. Zaffi, Z. Ziye. Le Murate, Sala Ottagono-Firenze, 2014.

Labs

Architettura e Città_Un progetto per Tirana. Università di Architettura di Tirana “Nostra Signora del Buon Consiglio” - Laboratorio di Architettura III - A.A. 2017/2018.

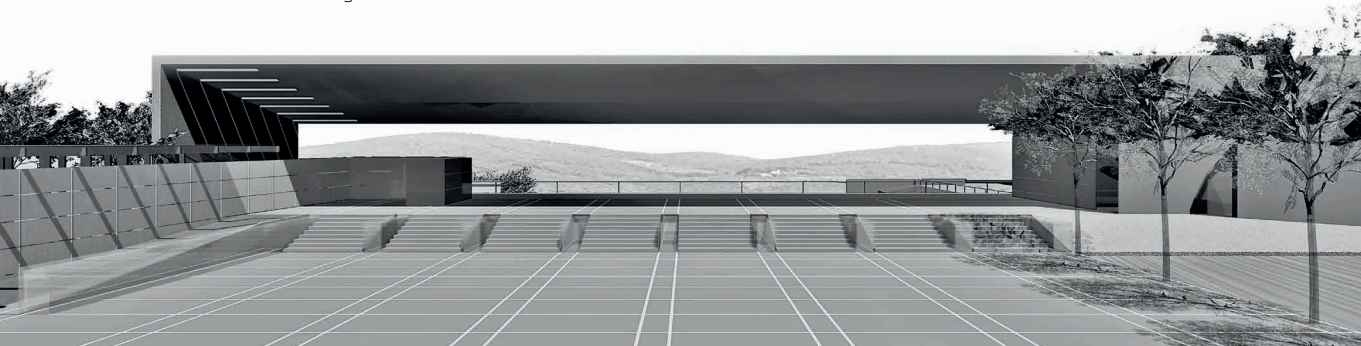
Workshop

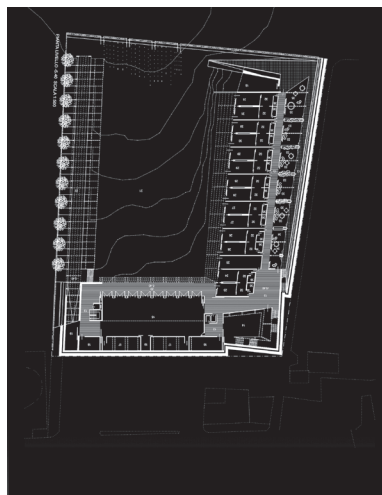
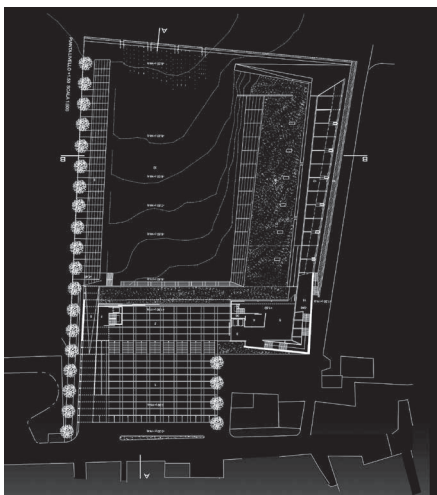
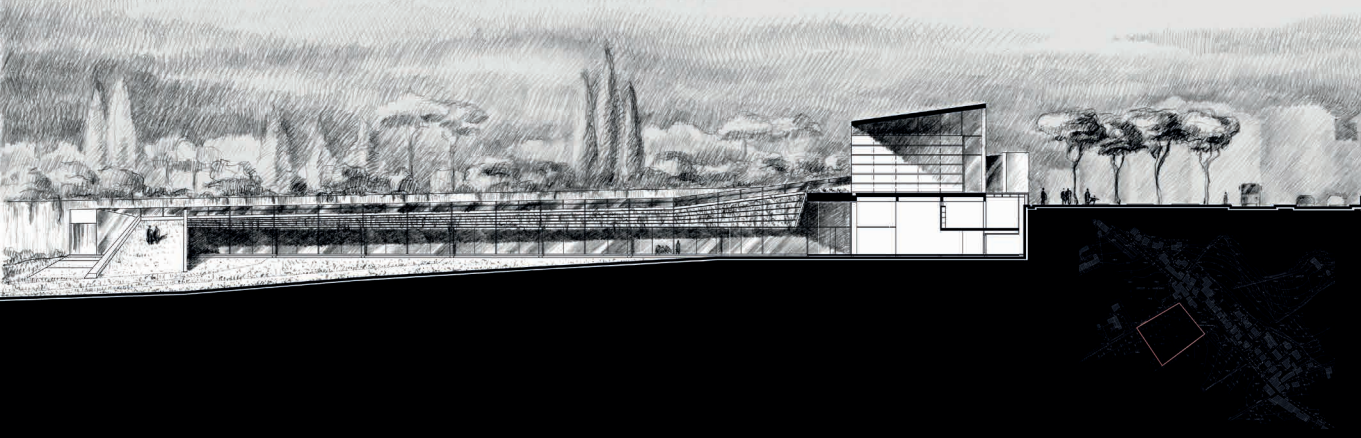
Workshop Overseas Summer School, Tongji University – Università di Firenze A.A. 2012-2013.

Thesis

16 Thesis produced by:

Corso di Laurea Magistrale a ciclo unico in Architettura
- Corso di Laurea Specialistico Biennale in Architettura
| Corso di Laurea Triennale in Scienze dell'Architettura.





NATURE AND CITY

Publications

Capestro A. 2016, *Per una nuova cultura dell'Arno*, «RI-VISTA. Ricerche per la progettazione del paesaggio», vol. 2.

Conferences

A. Capestro, *ALTRARNO_Un fiume di opportunità per Firenze*. "Centro_progetti e strategie di rigenerazione per il centro storico di Firenze". Palazzo di Parte Guelfa, Firenze 2013.

A. Capestro (edit by), *ARNO*. "Città_visioni e strategie". Palazzo Vegni - Firenze, 2015.

A. Capestro, *ARNO: visioni-strategie-progetti*. "Architetture in H2O. Costruzioni galleggianti e realtà acquatiche". Firenze, 2017.

A. Capestro, *Infrastruttura - Natura - Città*. "Incontri del terzo giardino_comunità e nuovi paesaggi". Le Murate - Firenze, 2017.

Exhibitions

ALTRARNO_Un fiume di opportunità per Firenze, A. Capestro, R. Nudo, A. Rinaldi (edit by), "Centro_progetti e strategie di rigenerazione per il centro storico di Firenze". Palazzo di Parte Guelfa, Firenze 2013.

Labs

ALTRARNO_Un fiume di opportunità per Firenze. Laboratorio di Architettura III, - A.A. 2012/2013.

IL FIUME E LA CITTÀ_Progetto del parco fluviale dell'Arno. Laboratorio di Architettura e Città - A.A. 2013/2014.

FIRENZE E IL SUO FIUME_Progetto di spazi per attività sull'Arno. Laboratorio di Architettura III - A.A. 2014/2015.

Thematic seminars

Tra natura e città: un progetto di riqualificazione per le Cascine a Firenze, Corso di Laurea Magistrale in Architettura A.A. 2012-2013.

Thesis

25 Thesis produced by:

Corso di Laurea Magistrale a ciclo unico in Architettura | Corso di Laurea Specialistico Biennale in Architettura | Corso di Laurea Triennale in Scienze dell'Architettura.

INFRASTRUCTURE AND CITY

Publications

Capestro A. 2014, *Da infrastruttura a città_esperienze a Bologna, Firenze, Genova, Glasgow, Livorno, Milano, Pisa, Prato, Shenzhen*, «AA. VV., La freccia del tempo. Ricerche e progetti di architettura delle infrastrutture».

Capestro A. 2013. *Il parco e la città: progetto della linea tranviaria 4 a Firenze*, FIRENZE ARCHITETTURA, vol. 1.

Conferences

Arezzo_La Città e la Ferrovia, Capestro A. (edit by). Urban Center - Arezzo 2014.

A. Capestro, *Da infrastruttura a città. Esperienze a Bologna, Firenze, Genova, Glasgow, Livorno, Milano, Pisa, Prato, Shenzhen*. Architettura del mondo. Ricerche e progetti dal mondo universitario - Sessione: Infrastrutture urbane, Triennale di Milano - Milano 2013.

Exhibitions

Il parco e la città: progetto della linea tranviaria 4 a Firenze. "LABORATORINMOSTRA", A. Capestro (edit by), Plesso di Santa Verdiana e Santa Teresa - Firenze 2012/2013.

Thematic seminars

Da infrastruttura a Città_Proposte di rigenerazione urbana per le aree ex ferroviarie di Pontassieve. A.A. 20012/2013.

Research

Strumenti a supporto dei processi di valorizzazione e rigenerazione urbana delle aree ex ferroviarie di Borgo Verde e Borgo Nuovo a Pontassieve. Research convention between Comune di Pontassieve and DI-DA - 2013/2014. Research Group: L. Zaffi (scientific director), A. Capestro, L. Chiesi, G. Verdiani.

Project

Zaffi L., Capestro A. 2013, *Masterplan per la valorizzazione e la rigenerazione urbana delle aree ex ferroviarie di Borgo Verde e Borgo Nuovo a Pontassieve*.

Thesis

16 Thesis produced by:

Corso di Laurea Magistrale a ciclo unico in Architettura | Corso di Laurea Specialistico Biennale in Architettura | Corso di Laurea Triennale in Scienze dell'Architettura.



Printed by
Rubbettino Print | Soveria Mannelli (CZ)
for **didapress**
Dipartimento di Architettura
Università degli Studi di Firenze
April 2019



UNIVERSITÀ
DEGLI STUDI
FIRENZE

DIDA, the Department of Architecture of the University of Florence, performed an open and public analysis and evaluation of the scientific research carried out during the first five years of activity since its establishment, in order to define its research strategies, their relationship with the 2nd and 3rd cycle education, the role of experimental research and the system of labs at DIDA (DIDALABS), as well as the role of research units and interuniversity research centers.

The aim of the DIDA Research Week Book 2018 is to communicate the results of such research, in all the aspects which were carried out at DIDA during its first five years of activity.

ISBN 978-88-3338-062-9



9 788833 380629