

MED GREEN FORUM 7th

GETTING TO ZERO

beyond energy transition towards
carbon-neutral mediterranean cities

14 – 16
FEBRUARY
2024
FLORENCE
SANTA TERESA



CONFERENCE PROGRAMME

GENERAL CHAIRS

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Chair of the Forum & Chair of the Scientific Committee

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Conference Chair - Host Institution

Marco Sala - MSAssociati
Honorary Co-chair of Scientific Committee

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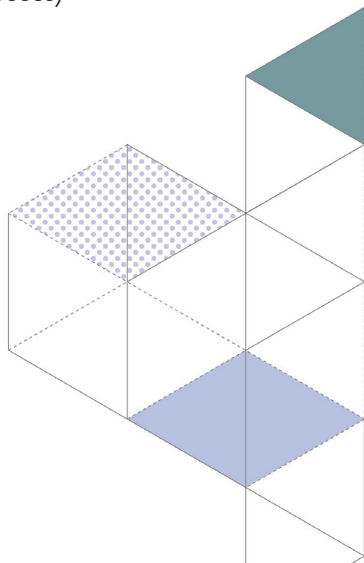
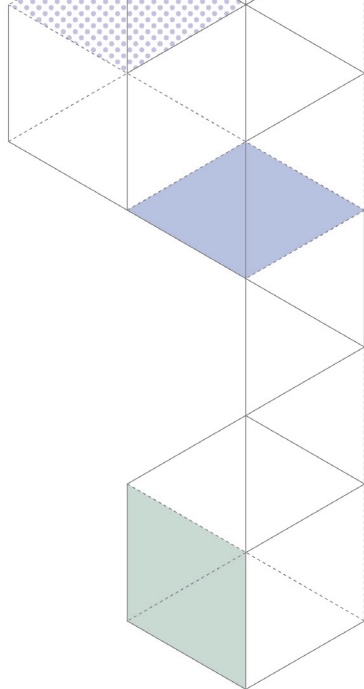
Gisella Calcagno - *University of Florence*

Lucia Montoni - *University of Florence*

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Matteo Bertelli - *University of Florence*

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Riadh Al Dabbagh - *Ajman University*
Samaher Ali Wannous - *Tishreen University*
Rana Badr - *Tishreen University*
Carla Balocco - *University of Florence*
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Maurizio De Lucia - *University of Florence*
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Dora Francese - *University of Naples – Federico II*
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Alfonso Senatore - *OnGreening*
Despina Serghides - *The Cyprus Institute*
Nicoletta Setola - *University of Florence*
Giulio Verdini - *University of Westminster*
Antonella Violano - *Vanvitelli University of Campania*
Matteo Zambelli - *University of Florence*



INVITED SPEAKERS

Rana Badr - *Tishreen University (Syria)*

Ruxandra Crutesco - *WREN Expert in Sustainable Architecture (Romania)*

Souha Ferchichi - *Mediterranean Renewable Energy Centre – MEDREC (Tunisia)*

Dora Francese - *University of Naples - Federico II (Italy)*

Maria Luisa Germanà - *University of Palermo (Italy)*

Consuelo Nava - *Mediterranea University of Reggio Calabria (Italy)*

Derya Oktay - *Maltepe University (Turkey)*

Giulio Verdini - *University of Westminster (United Kingdom)*

Contacts

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Conference Proceedings

edited by



Selected Papers

published on



Welcome to the 7th edition of the Mediterranean Green Forum!

OUR MISSION

The seventh edition of the MGF2024 opens with the slogan Getting to Zero to discuss the opportunities of the energy transition, based on the principles of efficiency, urban/building integration and ecology, and to explore possible carbon-neutral solutions/technologies/strategies/processes/policies for Mediterranean cities. 'Getting to zero' addresses the transformation of our territories, cities and architecture, a transversal topic, deeply related to social dynamics and new energy landscapes.

In the unique socio-climatic and cultural context of the Mediterranean basin, one of the contemporary challenges concerns the search for a balance between the valorisation of tangible and intangible heritage that shapes the historical and cultural identity of places and the need of new scenarios to address the current crisis and respond to contemporary needs. The first step towards decarbonisation is the green transition to clean and renewable energy. As this revolutionary process requires time and the call for a change is urgent, we need to find other solutions to rethink cities from a carbon-neutral perspective and to reach net zero emissions by 2050.



SESSIONS and TOPICS

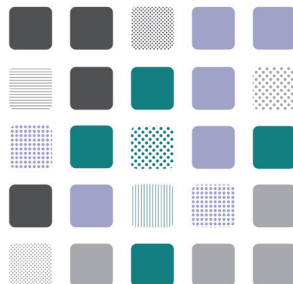
SESSION 1.

LANDSCAPE AND CITIES IN TRANSITION

Chair: A. Sayigh, R. Crutesco, R. Pulselli, F. Giglio, P. Picchi

Co-chair: G. Verdini, V. Dessì, C. Moretti, L. Montoni

Changing energy landscapes
Urban resilience and climate change
Positive energy districts | Energy communities
Energy system integration | Scenarios for renewables
Digital Twin, IoT, AI for energy efficiency
NBSs and biodiversity
Predictive planning and design
Citizen involvement / participation



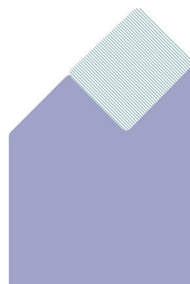
SESSION 2.

ARCHITECTURES FOR TOMORROW

Chair: M. Aboulnaga, C. Nava, E. Lucchi, A. Violano

Co-chair: G. Calcagno, M. V. Arnetoli, M. Bertelli, S. Dergham

Positive Energy Buildings | Green architecture
Nature-Based Solutions for energy efficiency
Innovative Retrofits, Renovations and Deep Renovations
Energy renovation of the cultural heritage
Bioclimatic and passive strategies for NZEB
Application of digital tools for innovative design process
Innovative co-planning and co-design approaches



Med Green Forum

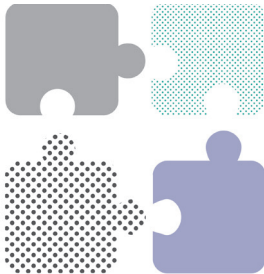
7th edition

SESSION 3.

ECO–TECHNOLOGIES AND MATERIALS

Chair: A. Rogora, A. Zabaniotou

Co-chair: G. Mangano, G. Pierucci



Changing energy landscapes

Renewable energy technologies | Green technologies

Eco and recycled materials | Life cycle design

Active materials | BIPV

Digitized production of building elements

Digital Technologies for efficient building management

Sensors, IoTs & AI | Adaptive process

Enabling technologies

SESSION 4.

PEOPLE & COMMUNITIES

Chair: A. Sayigh, D. Francese

Co-chair: S. Wannous, M. Bertelli, C. Sarrini



Human environmental comfort and wellbeing

People engagement for energy awareness & proactive
behaviours | Living Lab experiences

ICT platforms | user experience of building management

Sustainable | energy communities

Energy for post anthropocentric society

Educational and training | Policies and finance



WEDNESDAY 14 FEBRUARY 2024

morning | **room 401**

08:30 **Registration**

09:00 **Institutional greetings**

A. Sayigh Chair of the Forum & Chair of the Scientific Committee

M. Sala Honorary Co-chair of Scientific Committee

G. De Luca Director of the Department of Architecture DIDA (UNIFI)

M. Losasso President of SITdA (Società Italiana della Tecnologia dell'Architettura)

09:30 **PLENARY GETTING TO ZERO**

Chair: M. Sala - Co-chair: A. Trombadore

R. Badr

The machine man and his shelter in a time of artificial and digital transformation

I. Bennani

Climate change and energy transition. The Moroccan experience

S. Mecca

Proximity. The well-being in the city of future

G. Verdini

Climate-resilient Urban Futures in the Mediterranean Region: Notes

M.L. Germanà

Circular building production in the South Mediterranean area: the experience of CUBATI Project

D. Oktay

Neighbourhood nexus: towards positive energy environments in urban settings

11:00 COFFE BREAK

11:30 **PLENARY 1. LANDSCAPE AND CITIES IN TRANSITION**

Chair: R. Crutescu - Co-chair: G. Verdini

M. Sala

Urban forestation and green architecture for a sustainable built environment

M. Aboulnaga, M. Elsharkawy

Climate Neutrality and Global Perspective for Net-zero Policies and Buildings

D. Francese, B. Buoninconti, E.M. Oliva

Ecological and bioregional transition

R. Bologna

Global challenges and environmental design for a new balance between nature and city

B. Beckers

A physics-based urban digital twin for designing and renovating sustainable cities

E. Lucchi, M. Clementi, V. Dessì

Mapping urban local metabolism to support Building Integrated Agriculture

13:00 POSTER SESSION  MGF STUDENT AWARDS

13:15 LIGHT LUNCH

WEDNESDAY 14 FEBRUARY 2024

afternoon | **room 401**

14:00 : PARALLEL Session **1.1 LANDSCAPE AND CITIES IN TRANSITION**

Chair: **R. Pulselli** - Co-chair: **V. Dessì**

G.M. Mangano, D.L. Laganà, A.H. Hanida

Adaptive technologies in flooding scenarios through NBS/SUDS

S. Forastiere, C. Piselli, C. Balocco, A. Silei, F. Sciurpi

Energy transition and environmental sustainability in large commercial systems. A research project example

E. Zatta, M. Condotta

Tailored solutions for the sustainable transition of the built environment: the specific context as information source

M. Zagaria, F. Mancini

Energy and Environmental refurbishment of the residential complex of Torrevecchia in Rome: Retrofitting and Demand Response Activities

E. Paudice

New forms of interaction between infrastructure and the city: the experience of the intensive forest in the Garbatella park

D. Lucanto

An Advanced Framework for Regenerative Design in Digital and Physical Prototyping. Crafting a Comprehensive Atlas for Predictive Modeling and Adaptive Technologies in Climate Change Scenario Analysis

16:00 : COFFEE BREAK

16:30 : PARALLEL Session **1.2 LANDSCAPE AND CITIES IN TRANSITION**

Chair: **F. Giglio** - Co-chair: **C. Moretti**

V. Frighi, E. Piaia

Innovative approaches for heritage buildings renovation in the Mediterranean area

S. Magaudda

Designing Nature Based Solutions for Carbon Footprint offsetting of school communities

E. Giacomello, V. Tatano, R. Ravellini

SuDS-Sustainable Drainage Systems in city center. Open problems and technological solutions

L. Montoni, C. Moretti

Smart Biophilic cities: green and innovative digital solutions for sustainable urban development

L. Moujoud, O. Messous, A. El Fallous

Exploring the intersection of History and Morphology: A comparative study of the spatial formation in the early development of the Medina of Fez

WEDNESDAY 14 FEBRUARY 2024

afternoon | **room 402**

14:00 PARALLEL Session **2.1 ARCHITECTURES FOR TOMORROW**

Chair: **C. Nava** - Co-chair: **M. V. Arnetoli**

A. Rogora, M. Roca Musach

Comfort at work: Analysis, evaluation and design proposal for an industrial building in northern Italy

S. Dergham, A. Akram, M. Bassam, M. Abounaga

Adaptive Approaches to Attain Net Zero through Carbon Sequestration in Heritage Sites of Coastal Mediterranean Cities

A. Picariello, P. De Joanna, D. Francese

Bioclimatic Urban Renewal for an Historical Disused Military Area in Naples

L. Dipasquale, M. Perdonò, F. Battisti

Adopting Circular economy strategies in building regeneration through a holistic approach

N. Karar, S. Haggagy, A. Hadhoud, M. Rabea, S. Dergham

Sustainable Retrofitting Strategies for Existing Communities to Attain Resilience, Livability, and Climate Mitigation and Adaptation

G. Pierucci, G. Calcagno, A. Trombadore, L. Montoni, M. Bertelli

'Getting to zero' the university buildings stock. Boosting the renovation strategy and the action plan of the University of Florence

16:00 COFFEE BREAK

16:30 PARALLEL Session **2.2 ARCHITECTURES FOR TOMORROW**

Chair: **E. Lucchi** - Co-chair: **M. Bertelli**

L. Lombardo, S. Colajanni, T. Campisi

Madonie Green Walls Revolution: sustainable revitalization and enhancement of Sicilian inner rural areas

C. Clemente, A. Mangiatordi, M. Zagaria

"CIS Roma Scuole Verdi": a program to improving Energy Efficiency and Technological Retrofitting of school buildings in Rome

G. Paganin, C. Talamo, C. Chitanu

Assessing climate change adaptation of buildings: a review of performance indicators in Green Building Rating Systems

F. Tucci, V. Cecafozzo, M. Giampaolotti, G. Turchetti, K. Mitrik, L. Montagner

Green architecture, NZEB and Climate Neutrality. An intervention design model for deep renovation of Public Housing

R. Bologna, G. Hasanaj, C. Moretti

Shifting to a new sustainable paradigm: nature-based solutions and circular design for the urban regeneration

THURSDAY 15 FEBRUARY 2024

morning | **room 401**

08:30 : **Registration**

09:00 : **PLENARY 2. ARCHITECTURE FOR TOMORROW**

Chair: **M. Aboulnaga** - Co-chair: **G. Calcagno**

S. Wannous, L. Wannous, R. Badr

Architectural treatments for the integration of solar energy systems on the roofs of residential buildings as an alternative solution to the energy crisis in Syria

C. Nava

Architectures as carbon sink, as carbon pool, as carbon stake: how technological options challenge the loss of uptake of the Mediterranean sea

A. Violano, M. Cannaviello

Nature positive built environment: systemic approaches and technological design experimentation

S. Ferchichi

Mediterranean synergies for the energy renovation of university buildings: three pilot projects in Palestine, Tunisia, and Italy

A. Rogora, P. Leardini

Energy retrofit of non-monumental historic buildings: Problems, limitations and opportunities of technological advances

G. Grunwald and all

Building BIM Competence across Europe: the DIGITAL DECATHLON project

11:00 : COFFEE BREAK

11:30 : **PLENARY 3. ECO-TECHNOLOGIES AND MATERIALS**

Chair: **A. Rogora** - Co-chair: **G.M. Mangano**

A. Sayigh

European Drive to use Photovoltaic Application in New Buildings in 2025

M. Aboulnaga, A. Abouaiana, A. Eid, R. Elkeshki, S. Aboughoneima, A. Elmarakby

An Integrated Approach towards Smart Building Strategies to Mitigate Climate Change and Attain SDG to Reach Net-Zero

A. Zabaniotou, G. Vaskalis, A. Chasioti

Alternative Liquid Fuels from Plastic Waste toward Climate Change Mitigation and Circular Economy

F. Giglio, F. Armocida

A zero waste strategy toward carbon neutrality. Circular technology experimentations for life extension of non-recyclable plastic packaging

D. Lucanto, F. Filice

Eco-Design for Transition Architecture: Comparative Analysis for an Ascalar Methodology Utilizing Green Actions Defined by the PNACC and Pre-Design According to Life Cycle Thinking

12:15 : Realised Med-EcoSuRe pilot in S. Verdiana - OPENING*

13:00 : POSTER SESSION  **MGF STUDENT AWARDS**

13:15 : LIGHT LUNCH

11:30

SPECIAL SESSION

room 402

DIGITAL DECATHLON



12:15

*PILOT OPENING

Santa Verdiana



Med-EcoSuRe



Credits
@ETA-Florence

THURSDAY 15 FEBRUARY 2024

afternoon | **room 401**

14:00 PARALLEL Session **3.1 ECO-TECHNOLOGIES AND MATERIALS**

Chair: **A. Zabaniotou** - Co-chair: **G. Pierucci**

A. Abouaiana, A. Khamis

Agile Approach to Decarbonize Urban Communities Facility Management Industry Towards Carbon-neutral Mediterranean Cities

C. Marchiaro, G. Cadoni, C. Silvestri

Inventorying local resources to move towards new projectual models for sustainable architecture: materials, energy and know-how as catalyst for change

C. Scanagatta, M. Bortolotti, M. Condotta

Bio-based materials to foster efficient retrofitting of the existing building stock

M. Saeli, A. Calà

Reusing olive pomace waste for energy saving applications in construction: development of a panel prototype

E. Catalano, C. Nava

Green Responsive System (GRS): A Paradigm Shift in Urban Decarbonization in the Mediterranean Context

F. Tucci, S. Baiani, P. Altamura, V. Tulelli, G. Rossini

Low carbon bio-based building materials from organic waste: a closed-loop production model within circular neighborhoods

16:00 COFFEE BREAK

16:30 PARALLEL Session **1.3 LANDSCAPE AND CITIES IN TRANSITION**

Chair: **P. Picchi** - Co-chair: **M. Montoni**

M. K. Bin Mohd Zambri, E. A. Martinez Cesena

Analysing the Resilience of Microgrids as they Transition from Standalone to Grid-connected systems

L. Gelichi

Seaweed House 2.0

F. Gugliotta, A. Battistella

Wind Farms and Diachronic Landscapes: The Identity of Sustainability

17:30 Special event: Digital Decathlon Award Ceremony



THURSDAY 15 FEBRUARY 2024

afternoon | **room 402**

14:00 : PARALLEL Session **4.1 PEOPLE AND COMMUNITIES**

Chair: **D. Francese** - Co-chair: **C. Sarrini**

M. V. Arnetoli, E. Giannini, M. Vacca

MED_MESS Diversity, creative entropy and Mediterranean informality practices.

A. P. Pomè, G. Ciarabella

ESG Measurement Tool: An approach to measure the sustainability introduced in real estate requalification projects

F.E. Kaya, A. Monsù Scolaro

Empowering Circular Economy Transition in the Building Sector: A Stakeholder-Centric Approach in the Design Phase for Climate Change Mitigation

F. Romagnoli, T. Ferrante, T. Villani

Adaptability of housing for aging in place. Sustainable approaches to enhance environmental comfort

L. Sacchetti

Proposal of a Framework to Evaluate the Building Performance of Local Healthcare Facilities

16:00 : COFFEE BREAK

16:30 : PARALLEL Session **2.3 ARCHITECTURES FOR TOMORROW**

Chair: **A. Violano** - Co-chair: **S. Dergham**

H. Barton

Using co-design to extract best-practice innovations from cities around the world to accelerate city-level domestic retrofit schemes

M. Clementi, M. Migliore

Open source tools to support local circular co-design

A. Cristino

The Digitalization of Participatory Approaches

G. Cadoni, M. Belmaaziz

Multiscale energy modelling approach of the residential building stock based on data-driven GIS tool

A. Canducci, A. Calvano, A. Battisti

Technological and environmental strategies for the redevelopment of outdoor learning spaces and the establishment of Energy Hubs in school buildings

FRIDAY 16 FEBRUARY 2024

morning | room 401

08:30	Registration
09:00	PLENARY 4. PEOPLE AND COMMUNITIES Chair: A. Sayigh - Co-chair: S. Wannous R. Hinrichs-Rahlwes <i>The European Green Deal - building a sustainable energy system across end-uses: net zero or zero emissions</i> G. M. Mangano <i>Which Living Lab processes for the Renewable Energy Communities? A pilot experimentation in NRRP-T4Y Research</i> D. Giorgi, C. Morea <i>A design-led participatory process to address Climate City Contract for NetZero cities</i> A. Trombadore, C. Balocco <i>When architectural design unveils the ethical and aesthetical value of BIPV: the Santa Verdiana demo case</i> G. Calcagno, G. Pierucci, L. Montoni, M. Bertelli <i>Capitalizing the Med-EcoSuRe experience</i>
11:00	COFFE BREAK
11:30	PLENARY 1. LANDSCAPES AND CITIES IN TRANSITION Chair: A. Sayigh - Co-chair: M. Szabó R. Crutescu <i>Sustainable Architecture Challenges for a Sustainable Future</i> R. Pulselli, G. Paolinelli, S. Bastianoni <i>Living labs to design the transition towards carbon neutrality in Mediterranean Islands</i> A. Basti, E. Di Giuseppe <i>The technological design of renewable energy communities: architectural implication of an holistic approach</i> O. Smith <i>A Novel Collaborative Stakeholder Development Tool Using Energy System Optimisation and Visual Interface for Workshop Facilitation</i> P. Picchi <i>The landscape at the centre of the Agrivoltaic systems project</i> I. Khele, M. Szabó <i>Comparative Analysis of the energetic performance of Buildings Integrated Semi-Transparent PV glazing systems in the climate of Hungary and Syria</i>
13:00	POSTER SESSION  MGF STUDENT AWARDS
13:15	LIGHT LUNCH

FRIDAY 16 FEBRUARY 2024

afternoon | **room 401**

14:00 : CLOSING SESSION

ROUNDTABLE

Chair: **A. Trombadore** - Co-chair: **M.G. Mangano**

M. Sala - A. Sayigh - R. Badr - A. Rogora - C. Nava - M.L. Germanà - D. Francese -
M. Aboulnaga - I. Bennani

15:30 : Ceremony

MGF STUDENT AWARDS

MGF BEST PAPERS





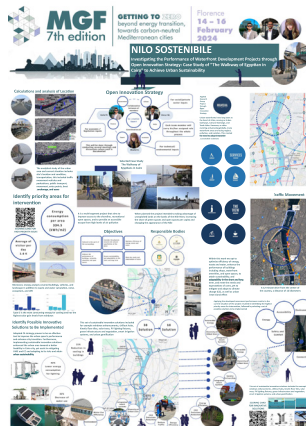
MGF Student Awards

FINALISTS

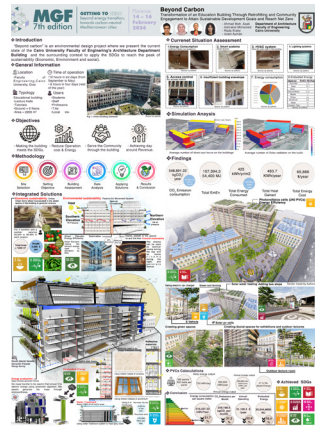
1. Z. Abdelmohsen, S. Abdelaziz, S. Arafa, Z. Ahmed *Cairo University*
2. S. Abuserriya, G. Hussein, O. Ragab *Cairo University*
3. A. Azab, R. Bakry, A. Shehab, I. Almasry *Cairo University*
4. E. Carbonara, M. Amabilli *University of Camerino*
5. A. Dechamps, A. Di Tommaso, A. Filippini, D. Ghilardi *Politecnico di Milano*
6. E. Di Giuseppe *Università degli Studi G. d'Annunzio*
7. F. Filice *University Mediterranea of Reggio Calabria*
8. S. Giampaolo, A. Giannini *University of Rome - La Sapienza*
9. L. Giannelli, L. Incrocci *University of Florence*
10. T. Jolovic, T. Jolovic *University of Montenegro*
11. N. Kara, S. Haggagy, A. Hadhoud, N. Rabea, S. Dergham *Cairo University*
12. D. Laganà *University Mediterranea of Reggio Calabria*
13. L. Lombardo, F. Barbera, S. Marinaro, F. Noto *University of Palermo*
14. M. Mastar, S. Hazaa , Y. Emre Saraç *Maltepe University*
15. L. Moujoud, I. Gharbi, F. Jabri *International University of Rabat*
16. A. P. Pomè *Politecnico di Milano*
17. C. Rutigliano *University of Florence*
18. C. Sarrini *University of Florence*



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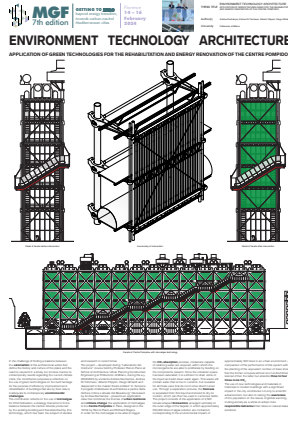
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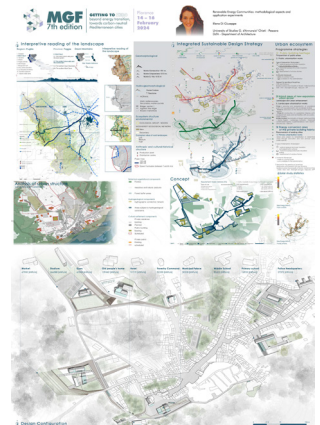
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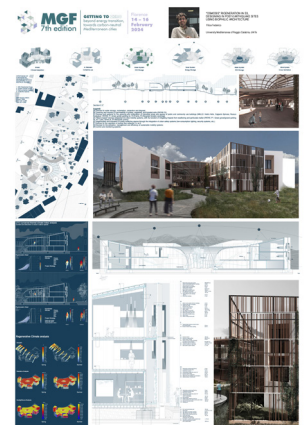
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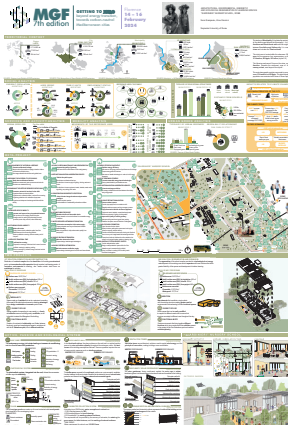
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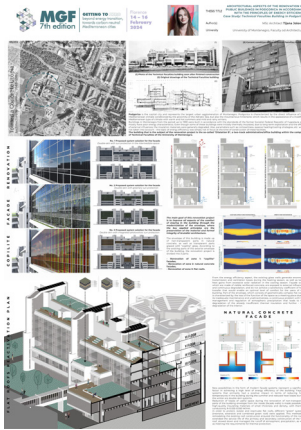
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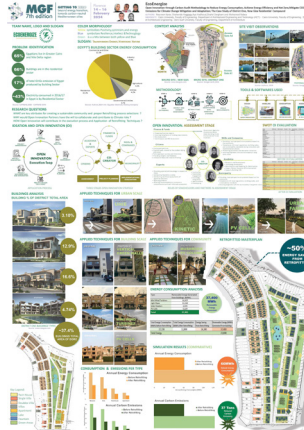
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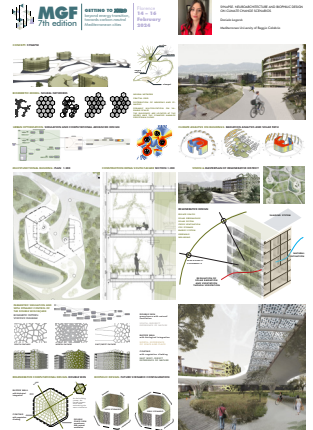
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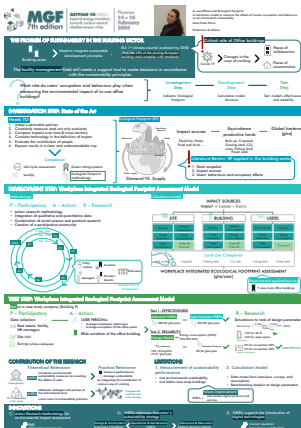
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16



17



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MGF People Index

E.F. Abdelbasset *International University of Rabat*
A. Abouaiana *Sinai University*
S. Aboughoneima *Cairo University*
M. Abounaga *Cairo University*
A. Akram *Cairo University*
M. AlDabbas *Arab Renewable Energy Commission*
P. Altamura *University of Rome "La Sapienza"*
S. Alvarez *University of Sevilla*
B. Andaloro *University of Study of Basilicata*
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M. Bellomo *University of Palermo*
M. Belmaaziz *ENSA Marseille*
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I. Bennani *International University of Rabat*
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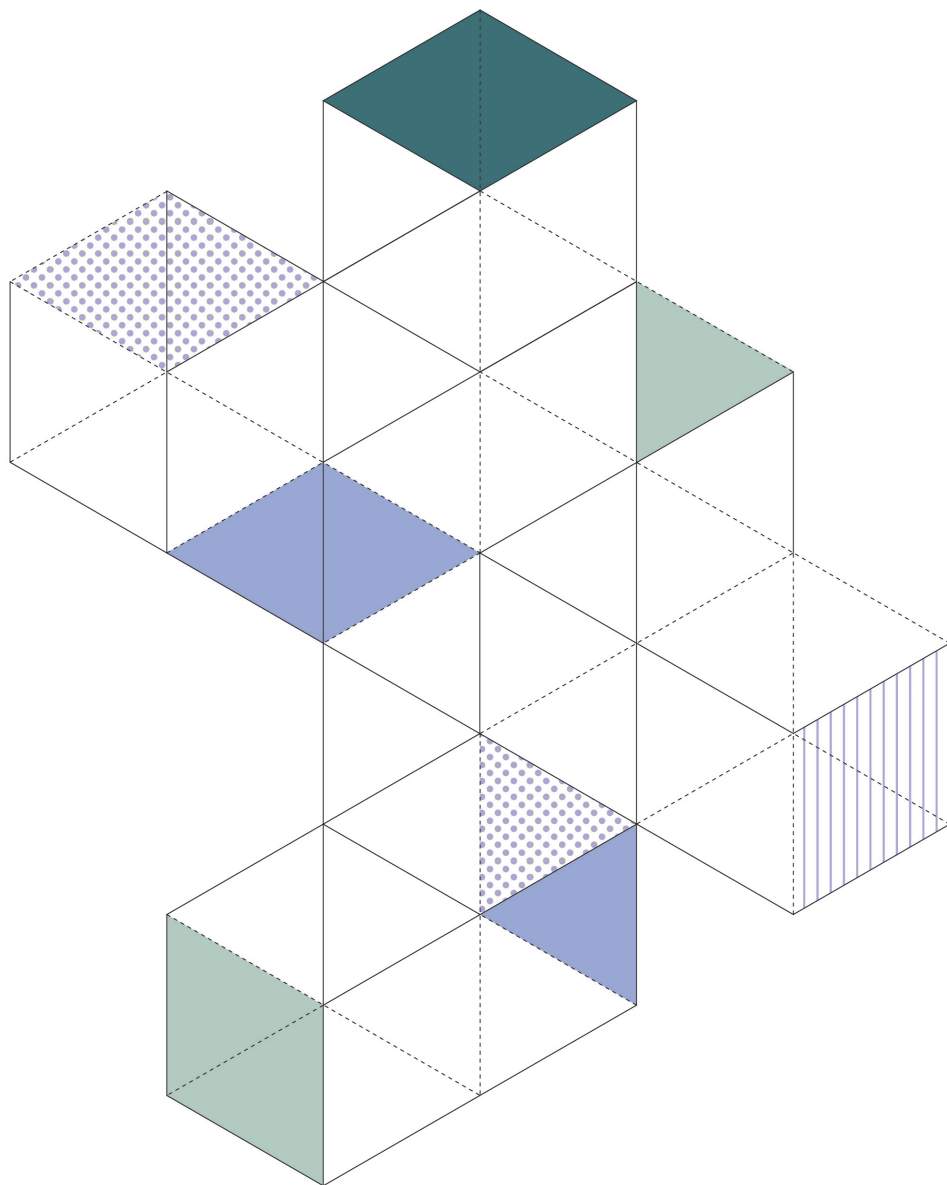
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Program at a glance

WEDNESDAY 14 FEBRUARY	THURSDAY 15 FEBRUARY	FRIDAY 16 FEBRUARY
08:30 09:00 Registration	08:30 09:00 Registration	08:30 09:00 Registration
09:00 09:30 Institutional Greetings	09:00 11:00 PLENARY	09:00 11:00 PLENARY
09:30 11:00 PLENARY GETTING TO ZERO	ARCHITECTURES FOR TOMORROW	PEOPLE AND COMMUNITIES
11:00 11:30 COFFEE BREAK	11:00 11:30 COFFEE BREAK	11:00 11:30 COFFEE BREAK
11:30 13:00 PLENARY LANDSCAPE AND CITIES IN TRANSITION	11:30 13:00 PLENARY ECO-TECHNOLOGIES AND MATERIALS	11:30 13:00 PLENARY LANDSCAPE AND CITIES IN TRANSITION
13:00 13:15 //// POSTER SESSION ////	13:00 13:15 //// POSTER SESSION ////	13:00 13:15 //// POSTER SESSION ////
13:15 14:00 LIGHT LUNCH	13:15 14:00 LIGHT LUNCH	13:15 14:00 LIGHT LUNCH
14:00 16:00 PARALLEL SESSIONS Session 1. LANDSCAPE AND CITIES IN TRANSITION room 401 Session 2. ARCHITECTURES FOR TOMORROW room 402	14:00 16:00 PARALLEL SESSIONS Session 3. ECO-TECHNOLOGIES AND MATERIALS room 401 Session 4. PEOPLE AND COMMUNITIES room 402	14:00 16:00 CLOSING SESSION MGF ROUNDTABLE Ceremony MGF Student Awards MGF Best Papers
16:00 16:30 COFFEE BREAK	16:00 16:30 COFFEE BREAK	
16:30 18:30 PARALLEL SESSIONS Session 1. LANDSCAPE AND CITIES IN TRANSITION room 401 Session 2. ARCHITECTURES FOR TOMORROW room 402	16:30 18:30 PARALLEL SESSIONS Session 1. LANDSCAPE AND CITIES IN TRANSITION room 401 Session 2. ARCHITECTURES FOR TOMORROW room 402	
	19:30 FORUM PIZZA*	* Pizzeria TIRATISSIMA Via G. Amendola, 14R



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