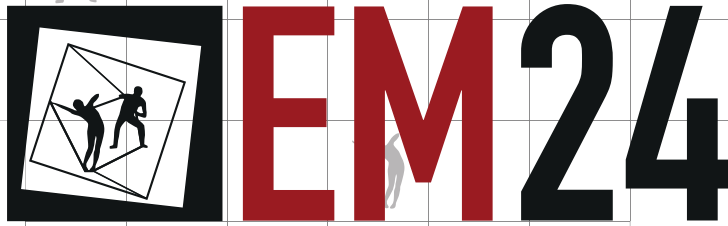


PUBLICA



EM24

EURAU - EUROPEAN RESEARCH ON ARCHITECTURE
AND URBANISM INTERNATIONAL CONFERENCE

**IN-PRESENCE /
THE BODY AND
THE SPACE**

The role of corporeity in the era of virtualization

Edited by: Marco Bovati, Anna Moro, Daniele Villa

ISBN: 978 · 88 · 99586 · 40 · 9

PUBLICA

Marco Bovati, Anna Moro, Daniele Villa
IN-PRESENCE / THE BODY AND THE SPACE.
The role of corporeity in the era of virtualization
© PUBLICA, Alghero, 2024
ISBN: 9788899586409
Pubblicazione luglio 2024

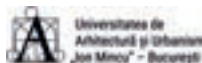
Tutti i testi di PUBLICA sono sottoposti a double peer review.

PUBLICA
Dipartimento di Architettura, Urbanistica e Design
Università degli Studi di Sassari
WWW.PUBLICAPRESS.IT

/ EURAU NETWORK

EURAU is a network of schools and researchers in Architecture which meets biannually in a symposium to share their investigations. EURAU's primary goal is to establish a debate and discussion on contemporary discourses about Architecture, City and Environment. This is a committed action organized by universities that contributes to the European Strategy for the transition towards a sustainable and inclusive society. Initiated by the French Ministry of Culture, EURAU has been active since 2004 organizing ten international conferences by different Schools of Architecture in various European cities: Marseille (2004), Lille (2005), Brussels-Liège-Mons (2006), Madrid (2008), Napoli (2010), Porto (2012), Istanbul (2014), Bucharest (2016), Alicante (2018), Birmingham-Staffordshire (2020-21).

The Department of Architecture and Urban Studies of the Politecnico di Milano organises at the School of Architecture Urban Planning Construction Engineering (AUIC), EURAU Milan 2024 "IN-PRESENCE / THE BODY AND THE SPACE - The role of corporeity in the era of virtualization", the eleventh edition of the international conference, which takes place from 19 to 22 June 2024.



/ EURAU Milan 2024

11th INTERNATIONAL CONFERENCE

EUROPEAN RESEARCH ON ARCHITECTURE
AND URBANISM INTERNATIONAL CONFERENCE

IN-PRESENCE / THE BODY AND THE SPACE

The role of corporeity in the era of virtualization

For those who deal with the city and the territory, space refers to the body
(C. Bianchetti)

The EURAU Milan 2024 Conference aims to unpack the significance of corporeality in contemporary times and its relevance for the upcoming years. Specifically, the focus is on the relation between body and space and how this relates to architecture, the city and the environment, interpreted as physical facts and processes. Within the background of a technological turn, the focus is now on what has changed or will further change in this relationship and what, on the opposite, remains unalterable, inherently bound to the material and impervious to the virtual.

TABLE OF CONTENTS

16	MARCO BOVATI, ANNA MORO, DANIELE VILLA Spaces, Bodies, Design - A Multidisciplinary Perspective
21	/ COMMITTEES
25	/ KEYNOTE SPEAKERS
27	1 / CONCEIVED
29	ID002 NADIA AMOROSO Visualizing climate action in urban design and landscape architecture. Strategies and impact
33	ID005 JOSEP MONTAÑOLA, MARGARET KRAWECKA, MAGDALENA SAURA Architecture and corporeity. Towards a new concept of place-making
37	ID009 LAMIA ABDELFATTAH, MATTEO ARIETTI, ANDREA BALESTRINI, CHRISTIANE BURKLEIN, GIULIA CASTELLAZZI, DIEGO DEPONTE, ANDREA GORRINI, VIRGILIO DÍAZ GUZMÁN, ZAYNEB KADIRI, GIULIO MARZULLO, FEDERICO MESSA The anatomy of public space. A multidisciplinary perspective
41	ID010 JORGE RAMOS-JULAR, FERNANDO ZAPARAÍN-HERNÁNDEZ Body-space relations in Bill Viola's audiovisual scenographies
45	ID012 ZHENGWEN ZHU Approaching the playground. Spatial practices for the body
49	ID020 MARÍA REDONDO PÉREZ Products, atmospheres and interactions. Relations between the body and Light Art
53	ID023 DIANA SALAHIEH, LAYLA ZIBAR, IRENA FIALOVA Exploring narrative research methods for an embodied reading of Prague's walkability
57	ID025 DANIELA COPPEDE PACHECO CIONI COPPOLA Diagramming & mapping. The underlying system of architecture
61	ID028 ALESSANDRO DI EGIDIO Fighting technological alienation. Performing media as a sustainable practice of human-machine symbiosis

65	ID034	SARAH JAVED SHAH, LIHENG ZHU The [socio-cultural] production of space. Doorstep: Exploring threshold in non-western contexts
71	ID035	FRANCESCA BERNI The weather body, the water space. Exploring the landscape as technological environment
75	ID040	CIGDEM AKIFOGLU, PELIN DURSUN ÇEBİ Bodily experiences on paper space. Imaginary narratives
79	ID041	BEATRICE LAMPARIELLO, SILVIA GROAZ From object to subject. The body architecture of Hans Hollein
83	ID042	LAURA SUVIERI The silent body. Exploring the neglected nexus of type, materiality, and human perception in Carlos Martí Aris
87	ID044	INÊS SALGUEIRO, RUI AMÉRICO CARDOSO, LUÍS S. VIEGAS On the importance of the body's experience in space and the act of drawing for the architectural conceiving process
91	ID046	MARIO COPPOLA Coexistence: The goal of architectural composition now. Architecture as trespassing tool to embrace culture, body, Earth
95	ID047	ANNA PROSKURIAKOVA Reimagining interaction between Industrial heritage and human bodies. Revitalization of post-industrial areas as an opportunity for small and medium-sized Italian cities
99	ID048	NILSU ALTUNOK, PELIN DURSUN ÇEBİ Looking at the city from our body through the "Walkers' Handbook or a Walking Lexicon"
103	ID049	MINGYUE ZHANG, JIN BAEK The body in architectural experience. Merleau-Ponty's phenomenology interpreting the strolling spaces of traditional oriental gardens
107	ID050	ANTÔNIO FREDERICO LASALVIA Paxton after Paxton: Form as formlessness in the dance of architecture
111	ID055	ROBERTO PODDA Eye-foot-hand. Actuality of a phenomenology of bodily life in the "exponential" space
115	ID060	GAMZE SENSOY Tracing the experience through the metamorphosis of body-space relationship
119	ID063	ZÜMRÜT SAHİN The artist's studio unveiled. Exploration of practice, body, and space
125	ID067	RAFAËL MAGROU Re-composing the theatrical space from the fourth wall
129	ID068	FRANCESCA CASALINO Dancing bodies. Anna Halprin and her workshops at Dance Deck and beyond
133	ID071	EZGI SELİN KARADEM, ET AL. How do we use our bodies to investigate our surroundings? Deciphering the individual and collective narratives of the architects
137	ID072	BEATRICE-GABRIELA JÖGER Between virtual and corporeality. Challenges in experiencing architecture today
141	ID073	ELİF CEMRE ÇELİKCAN Spatial cognition and representation of a verbally experienced environment. A study on preschool children's spatial construction through drawing
145	ID074	GEON-IL LEE, JIN BAEK Questioning the meaning of 'atmospheric'. A foundational study on climatic approach to 'atmosphere'

149	ID081	ZÜMRÜT SAHİN, NILSU ALTUNOK, PELİN DURSUN ÇEBİ, FATMA ERKÖK Performing the everyday. Temporal spatiality constructed by body movements
153	ID085	YUE ZHONG Touching the surface "Nahsicht" theory of Alois Riegls in tactile interaction between body-space
157	ID087	VALENTINA RADİ Generative thresholds. The simultaneity of passages
161	ID090	FRANCESCA COPPOLINO, VINCENZO VALENTINO Spectrographies. Body, cinema, memory in the architectural project
165	ID095	ANDREA CRUDELI The corporeal imagination of tactility. The methodology of Harquitectes
169	ID096	PABLO BERZAL CRUZ Performing space. An approach to architecture through performance
173	ID097	MELİKE NUR SAHİN Transformation of the objective-subjective dialectic in the body-space relationship throughout architectural periods
177	ID099	MARTINA CARANDENTE, ANNUNZIATA AMBROSINO Space and rhythm. The cult of the body
181	ID102	FÜLYA SELÇUK, FERHAT HACIALİBEYOĞLU From me/my body to margin: Discovering the minor spatialities of daily life through subjective trajectories
185	ID105	DEMET SATI, PELİN DURSUN ÇEBİ Rethinking the body-space dynamic: Space as a body. A comprehensive investigation through phenomenology and language
189	ID108	VOICA MARIUS, MARIA TÎLVESCU-NICULA, MARIA-CRISTINA CLENCIU Unique experiences in the approach of architectural education
193	ID109	LINGZHENG ZHU Writing as Cosmogogenesis. A Chinese genealogy of bodily traces in digitally augmented spaces
199	ID110	SIMONA CAPALDO The transitional project for disused buildings. An alternative to the vulnerability of bodies and spaces for another way of doing architecture
203	ID115	TIANQIN CHEN, ANTÓNIO CARVALHO Integration of aesthetics and accessibility. Enhancing living spaces for ageing communities
209	ID117	PAOLA BUCCARO Beyond the threshold: The effects of the dematerialisation on the relationship between city and home
215	ID120	FRANCESCO TOSETTO Natural tension. Myth, shape, body
217	ID127	LEONOR REIS, CARLA GARRIDO DE OLIVEIRA, FILIPA DE CASTRO GUERREIRO Fragmented narratives: Drawing memory and time in the scarp of Fontainhas
221	ID129	ESTHER LORENZ The Augmented Kinesthetic City. Embodied experience of Hong Kong's urban morphology
225	ID130	SEGAH SAK Ankara train station as a locus of conflicts

- 229 ID132 AI CHENG, WU YUE, FILIPPO ORSINI
The interplay of action art and architectural spatial practice. A case study of Chengdu
- 233 ID134 ANGELO GANAZZOLI
The tomb as an architectural garrison in the era of virtualization.
The recovery of the sacred dimension of architecture
- 237 ID135 TIAGO ASCENSAO
Ready-made architectural processes: Re-signification of reality as a solution
- 241 ID137 SARA GALANTE DE CAL
From 'common place' to a 'place in common' through architectural design
- 245 ID139 GIACOMO D'AMICO, ROSA MARINA TORNATORA
Designing beyond Earth. An evolution in body-space-architecture paradigm
for space design
- 249 ID142 MARTINA RUSSO
Ludomestic. Critical perspectives on dwellings, from standardization to
Reversible Destiny lofts by Arakawa+Gins
- 253 ID148 MARTINA CRAPOLICCHIO, SANTIAGO GOMES, ROSSELLA GUGLIOTTA
Elements of everyday life. Domestic spaces and actions in a pedagogical experiment
- 257 ID150 JEONGHEE KO, BAEK JIN
Reimagining Myeongdong. An act-oriented approach to urban resilience and adaptation
- 261 ID153 LUÍS CARLOS BUCHA
The shell as spatial emergence: A house for and from the body
- 265 ID173 YIDAN LIU, MARCO BOVATI, PAOLO VINCENZO GENOVESE
Cultural narratives in transitional spaces of Miao Villages.
A case study of Guzang Festival and Jiubai Village
- 269 ID174 CARLA COLLEVECCHIO
Corporeal landscapes: Sculpture as a pedagogical device
- 275 ID177 MARIA LUNE NOBILE
The city as a laboratory. Investigating body space interactions in the contemporary city
- 281 ID181 BILGE CAN, FATMA ERKÖK
Critical potentials of embodied mind through the works of Raumlabor
- 285 ID184 MARGARITA DANOU, SEVINA FLORIDOU
Voroklini coastal promenade and re-configuration of the Verki coastal estuary
- 289 ID190 ELIF CEMRE ÇELIKCAN, ASLIHAN SENEL
Spatial correlators in the functioning of autobiographical memory:
wandering through Virginia Woolf's home
- 293 ID194 OZAN AVCI
The Body as the site of architectural knowledge
- 299 ID205 MICHELA BAROSIO
Types, codes and algorithms for a perception's centered design
- 303 ID206 GIANLUIGI DE MARTINO, VIVIANA SAIITTO, STEFANO GUADAGNO
Not only human. Not only terrestrial. Teaching through the measurement
of body and space
- 307 ID212 CLAUDIA PIRINA, GIOVANNI COMI
To the rhythm of dance. Interactions between body, light and architecture
- 311 ALISIA TOGNON
1/ ENDNOTES

313 2 / INTER-ACTIVE

- 315 ID004 LUCA LAZZARINI, GLORIA LISI, MARO MAREGGI
The Walking Body. A reflection on the walking–design relationship based on the experience of Laboratorio del Cammino
- 321 ID006 DAFNI RIGA
Bodies on the move. Exploring the effects of speed in the body-space relationship
- 325 ID008 ALBA BALMASEDA DOMÍNGUEZ
Bodies, water and the city: Collective bathing in urban surroundings
- 329 ID021 NICOLETTA BRANCACCIO
Embodying the oblique. How space coding and construction of reality can explain the relation between space and emotions
- 333 ID024 BELEN ZEVALLOS BORGES
Making a case for space in schools. The learning landscape of Wütoschingen
- 337 ID030 SIDDHARTH SRIVASTAVA
The body and its urbanity. Cities in India
- 341 ID033 YOURI SPANINKS AMARO
The body is the machine. Interpreting Lisbon's threshold spaces through corporeity
- 345 ID036 CAROLA D'AMBROSIO
How body shapes architecture. The immersive experiences of Villa Fontana and the Twin Villas
- 349 ID037 SILVIA SFLIGIOTTI
The art of arriving. A somatic approach to a critical understanding of the built environment
- 353 ID039 BUKET SAMANCI, IREM SÜTÇÜ
Dynamic interactions between boundary and the body: Instantaneous spatial formations
- 357 ID045 SUSANA VENTURA
The composition of architectural sensations: Blocks of intensive body-space and their potential to transform environmentally-sensitive architecture
- 361 ID054 CHRISTINA GEORGA
When cinema introduces the new embodied spatial experience. Regaining hapticity through the cinematic lens of Michelangelo Antonioni
- 365 ID058 RAFFAELLA CAVALLARO
The pedagogical value of the body in the design of contemporary learning spaces. Giving the child back his ninety-nine worlds
- 371 ID059 ROBERTO JUAN CARDINI
Interactions in the processes of occupation and appropriation of space. Interpretation of practices in the Mercato Sonato, Bologna
- 375 ID065 IPEK ÖZER
Reading body and place relationship through public art
- 379 ID069 SEÇİL YATAN GÜL, ASLIHAN SENEL
Notational Drawing. A study of an embodied knowledge of architectural space
- 383 ID070 FRANCESCO IULIANO
The interaction inhabitant-space as a design tool. How an inhabitant-centred design approach can shape the renewal of the existing building stock
- 387 ID080 NATALIA MATE SANZ VENTURA
Affectent bodies and spaces in the reshaping of the established city. Urban communes and counter-drag in the free city. San Francisco, 1966-75

391	ID084	INÊS SALEMA GUILHERME, RUI JORGE GARCIA RAMOS, GISELA LAMEIRA Everyone and everywhere. Intergenerational practice as evidence of the bodies in the space
395	ID086	GIULIA AZZINI The human scale of riverscapes. A body-centered perspective for fragile territories
399	ID092	THIRUNESHA NAIDOO Interactive designed public spaces: Shaping Melbourne's general markets through performativity and performance
403	ID093	CASSANDRA COZZA Children architectures. Spaces for discovering and caring inhabited by different and changing corporealities
409	ID100	GIANFRANCO ORSENIGO "You must have been there". Designing re-socializing spaces within prisons
415	ID106	FRANCESCA MUSANTI, ANDREA MANCA, CLAUDIA PINTOR Sensitive places. A phenomenological perspective for accessible design
419	ID124	MAHDI ALIZADEH The pursuit of presence in Siza's architecture. A phenomenological narrative of Piscina das Marés
423	ID131	MARIA OLIVEIRA EPIFÂNIO DA FRANCA, ANA SOUSA BRANDÃO ALVES COSTA A journey around my apartment. The relationship between dwelling and the COVID-19 pandemic lockdown
427	ID136	ELEONORA ANTONIADOU The body as a tool in architectural pedagogy. Global tools Body Workshops
431	ID140	GLORIA CALDERONE Designing bodies: New challenges for a more corporeal urbanism
435	ID141	ANDREA SCALAS Grounding. Body and contact with prehistoric matter
439	ID155	ANDRÉS SEÑORET Does social interaction at a street level promotes community ties? Density, diversity, bodies and affect in neoliberal downtown Santiago
443	ID157	ANDREA MANCA The maieutic value of form. A genealogical ramification of engagement in architectural and urban project
447	ID166	BARBARA COPPETTI Retrospective Prospective. The body inhabits the world
451	ID170	JAVIER SÁNCHEZ MERINA Microarchitectures. Exploring intimate connections between body, space, and the understanding of diverse realities
455	ID171	PAOLA SCALA Traces, bodies and the public space
459	ID172	YIORGOS HADJICHRISTOU Body in space. Space as a body. Interaction of bodies in Malleable courtyards
463	ID182	BILGE CAN, FATMA ERKÖK Searching for the traces of avant-garde theory in practice. A parallax view of Diller and Scofidio
467	ID191	E. BURCU ERYILMAZ Les immatériaux and the paradigm of interaction
471	ID193	ORFINA FATIGATO Project as a process of transition: Precision, adaptability, indeterminacy

- 477 ID195 SORAIA PATRÍCIA ANTUNES DOS REIS, CARLA GARRIDO DE OLIVEIRA , FILIPA DE CASTRO GUERREIRO.
Cross-border cooperation: For a sustainable territorial planning. Insights from Rio de Onor and Rionor de Castilla in the northwest of the Iberian Peninsula
- 481 ID200 NEIL LAMB, WHITNEY BEVAN, MARÍA JOSÉ MARTINEZ SANCHEZ
Enhancing student learning, inclusivity, and a sense of belonging in higher education through community engagement and civic projects
- 485 ID203 GERARDO SEMPREBON, CHANG LIU, ZHI LEI
The enigma of density. Testing design proposals to revitalize Hua'anli urban village (Wuhan)
- 489 ID216 CRISTELLE LECOEUR
First semester in architecture: A body confronted with the reality of suburban spaces
- 492 STEFANO SARTORIO, FRANCESCO AIROLDI
2/ ENDNOTES

495 **3 / AFFECTED**

- 497 ID007 AIKATERINI ANTONOPOULOU, SEBASTIAN AEDO JURY
The body of the crowd as a cartographic tool through the Kill the Bill movement in Bristol
- 501 ID027 JULIA NERANTZIA TZORTZI, MARIA STELLA LUX
Citizens as main characters in urban adaptation. People's experience and contribution in the development of Decision Support Systems
- 505 ID056 ALESSANDRO GAIANI
Post natural inclusion
- 509 ID061 CINDY MENASSA-KÜELBY
Rethinking design: Body, behavior, nature, and our role in balancing ecosystems
- 513 ID062 FRANCESCA DI FUSCO
Interdisciplinary dialogue: Body, space and well-being. The impact of architectural and urban configurations on paces of care
- 517 ID078 SARA NAFI
Exploring the synergy between transit-oriented development and architectural humanism. Qatar's transit evolution: bridging architecture and urban living
- 521 ID079 CICEK KARATAS
Navigating fragility and urban memory: The role of the Beledna Memory Map in preserving intangible cultural heritage post-earthquake in Antakya, Hatay, Turkey
- 525 ID089 FRANCESCA MELINA
A paradigm of the contemporary city: Temperature as embodied perception
- 529 ID091 ZHENG WU
Wind-driven urban design. Design urban ventilation corridors from the block scale
- 533 ID098 DANIELA BUONANNO, LUCIANA MACALUSO
Tree-space-body. Urban forestry in Naples and Palermo
- 537 ID101 DEEMA ALATTAR
Examining outdoor thermal comfort and the use of public transportation system: A sustainable approach for Qatar's rapidly evolving cityscape
- 541 ID118 CATARINA FREITAS, GISELA LAMEIRA
Visual urban quality and health. A pre-intervention analysis method
- 545 ID121 GENNARO VITOLO
Contemplation and rebirth: Cemeteries between atmospheres and inner journeys

- 549 ID122 GRETA CALIENDO
Cultural heritage and public space. Affecting social complexity of Contemporary City
- 553 ID138 FRANCESCA ZANOTTO
Diverse bodies, multiple scales: Architectural strategies for urban biodiversity
- 559 ID144 GIOVANNI COMI
Thinking in architecture. Matter as mediation between body and nature
- 563 ID152 ALESSANDRO FRIGERIO, LAURA MONTEDORO
Overtourism in UNESCO sites and its effect on urban public space. An EU project experience of research by design in Athens, Florence and Krakow
- 569 ID158 AYELEN BETSABE ZUCOTTI
The tags associated with the Munch Museum and its relationship to the Oslo community
- 573 ID159 KRYSTALLIA KAMVASINOY, LORENZO STEFANO IANNIZZOTTO
Bodies in the Void: Addressing socioecological challenges through temporary practices in *Terrain Vague* sites
- 577 ID168 NADIA MOUNAJJED
The body and the architectonics of the desert
- 581 ID179 FRANCESCO AIROLDI
Every-Body. Spatial education as a co-design strategy for disaster risk reduction, disaster risk mitigation, and climate change adaptation
- 585 ID180 HOCINE ALIOUANE-SHAW
Using situated pedagogies and the concept of interdependence to engage with the environment and call its future into being
- 589 ID186 SILVIA DI MAURO
Relational stratifications. Body-centered approaches for an adaptive reuse strategy
- 593 ID189 ALESSANDRA SWINY, MARIA HADJISOTERIOU, TERESA TOURVAS
Unsettled. Creating community in a displaced environment
- 597 ID209 SILVIA BASSANESE
Bodies - Figure[s] - Ground[s]. Practices that enable conflictual society to find form of coexistence
- 601 ID210 ALISIA TOGNON, EKIN OLCAY
Mountainous Mastery. Architectural adaptations and urban fabric in Trentino's challenging terrain
- 607 ID213 YI GUO
The affected body in hyper-dense urban habitats: Exploring embodied architectural experiences in Hong Kong and Shenzhen
- 610 SILVIA DI MAURO, KEVIN SANTUS
3/ ENDNOTES

613 **4 / VULNERABLE**

- 615 ID017 ALLANA AVILA DORNELES
Vulnerability and Neuroarchitecture. Approaches to care in healthcare environments: a narrative review
- 621 ID032 MICHELA BASSANELLI, CAROLA D'AMBROS
Bodies, Work, Care. How office and domestic space is changing
- 625 ID043 NADIA MOUNAJJED
Pedagogies of care: Practices and methods for a non-ableist body-centered design

629	ID052	LUCA LANA The Gardening Body: The queer ecology of Prospect Cottage
635	ID053	FABIOLA CRISTALLI Sewing along the borders. Spaces and identities in and through modern cross-border cities
639	ID066	GAMZE AKYOL, EKIN OLCAY Echoes of heritage: Navigating the intangible heritage and urban memory in the post-disaster
645	ID077	ANGELA COLUCCI, ANTONELLA CUPPARI, ANNA SCHELLINO Diversity as a resource for inclusive public city. Exploratory walks for public city co-production and co-design
651	ID088	SARA RICCARDI The invisible ones: Bodies and spaces of the Italian prison in the 21st century
655	ID104	CLAUDIA PINTOR, ANDREA MANCA, FRANCESCA MUSANTI As many people, in as many places, as possible. A hypothesis of phenomenological approach to accessible project
659	ID114	FRANCESCA RIPAMONTI Shaping new and diverse gestures. A qualitative approach to the design of Healthcare Centers
663	ID116	INÊS ANDRADE, LUCIANA ROCHA Architecture in conflict. Dichotomies on current challenges in state-subsidized neighbourhoods in Oporto, Portugal
667	ID126	MARIO GALTERISI Built spaces, vulnerable bodies. A study on the influence of stigma in architecture
671	ID133	MICHELA VANDA CASERINI Beyond the ring-road: Ethnographical reading of a spontaneous settlement in Maputo
675	ID146	FIDEL MERAZ, ELEONORA NICOLETTI, MERATE BARAKAT Architectural inclusivity: Adaptive spaces for aural wellbeing of individuals with dissimilar sensorium
679	ID147	MARGARIDA PINHAL, FILIPA DE CASTRO GUERREIRO, CARLA GARRIDO DE OLIVEIRA The palimpsest, strategies to drawing multiples spaces to multiples communities. Martim Moniz, Lisbon
683	ID160	ARIANNA SCAIOLI Empowered bodies. The legacy of Tschumi's work as a driver for social and spatial transformation
687	ID161	MARIANA AGUIAR ANTUNES, CARLA GARRIDO DE OLIVEIRA, FILIPA CASTRO GUERREIRO Res-publica: The social role of architecture and urban design in the production of public housing in Porto
691	ID162	EMILIA CORRADI, CAMILLO FRATTARI Addressing vulnerability through place-based knowledge and co-design practices
695	ID169	SILVIA DI EUSANIO Rethinking urban spaces: An intersectional perspective
699	ID178	CAMILLA CASONATO Standing around the model. Bodies, participation, and landscape representation
703	ID185	ANGELA KYRIACOU PETROU, MARIA HADJISOTERIOU Design practices of inclusion
707	ID187	SAMER WANAN Child's play in the Palestinian landscape: On vulnerability & attachment
711	ID198	FRANCESCO STEFANO SAMMARCO, ANNA TERRACCIANO From Limit to Limine. Piazza D'Armi in Nola: from marginal place to new gateway to the city

- 715** ID201 CAMILLA CASONATO, ERICA CANTALUPPI
Heritage, community, and education. The case of Museu da Cidade in Sao Paulo
- 719** ID202 GERARDO SEMPREBON
Architectural design to regenerate fragile buildings in rural China
- 723** ID208 MARIA FIERRO
The "invisible" spaces of marginality: The case of Roma communities
- 727** ID214 DIOGO FARIA
Queer spaces of the cityscape of Funchal
- 730** ARIANA SCAIOLI
4/ ENDNOTES
- 733** **5 / AUGMENTED**
- 735** ID011 ALEKSANDAR DUNDJEROVIC, STEPHEN SIMMS, MARIA MARTINES SANCHEZ
Body-centred strategies of urban scenography and cybernetic theatre: Two practice-based research case studies 'The Cybernetic Cabaret' and 'Looking for Andy'
- 739** ID013 ASMA MEHAN
Corporeality in Virtual Spaces: An exploration through AR/VR Technologies
- 743** ID014 AARON PATERSON, MARIAN MACKEN, SAROSH MULLA
Embodied Drawings and Virtual Twins
- 747** ID015 TINO GRISI
The generative artificial intelligence as tool of human augmented intuition and sensitivity in architecture
- 751** ID016 ADEL FERNANDO AL BLOUSHI
Virtual postures. Presence and simulated spatial phenomena
- 755** ID018 JENNIFER SHIELDS, ANNA OSELLO
Cultural heritage and augmented, mixed, and virtual realities: Accessibility and inclusion for people with disabilities
- 759** D019 STEFANIA RASILE
Architecture, death and the digitalization of memory: Cemeteries in virtual commemoration times
- 763** ID022 ANDREEA-GABRIELA NISTORESCU (MARINESCU)
Synthesis and synergy. The role of human-centered design in interior architecture and the dynamic interplay between physical and virtual environments
- 767** ID029 NERANTZIA TZORTZI, TARA SAHAFIAN
Analysis of water element integration in the architecture and landscape of Persian Gardens amid the hot and arid climate of the Iran's desert
- 771** ID038 JUAN CARLOS DALL'ASTA, JOHN LATTO
Reimagining body-space dynamics: Lessons from Shanghai, the contemporary land of Toys
- 777** ID051 ELENA ROCCHI, ELIZABETH LERMAN
Principled innovation in immersive learning environments: A roadmap for transformative change at Arizona State University's Herberger Institute for Design and the Arts using "technologies of human expression"
- 783** ID075 CUI LIU, ZHIYUAN GU
An assessment framework of physical-virtual publicness in public space
- 787** ID076 MAGDALINI GRIGORIADOU, GIORGOS LOUKAKIS, THEMISTOKLIS LEKKAS
Beyond reality: Exploring embodiment-disembodiment in mixed reality environments with non-euclidean geometries, innovative navigation modalities and perceptual dissociation in video games

- 793** ID111 VALENTINA RIZZI, DANIEL BARBA-RODRÍGUEZ
Virtualizing bodies in transformative platforms of corporeality: Embodied visualisation over flesh boundaries
- 797** ID113 ANDREEA ROBU-MOVILA
Neuroarchitecture. From effective computing to affective computing in the design process
- 801** ID128 SARA ANNA SAPONE
Transformation of an anthropic ecosystem. Esseburg Park between physical experience and digital representation
- 807** ID156 SARA CODARIN, KARL DAUBMANN
Humanizing VR: Foregrounding the role of the body in digital twins
- 811** ID163 GIOVANGIUSEPPE VANNELLI, MONICA ROSSI-SCHWARZENBECK
When the body-space relationship needs wider understanding to foster participation. A strategy to integrate reality, virtuality and stakeholders in post-disaster design
- 815** ID176 DARIA BELKOURI, PRITCHARD DOUGLAS
Reclaiming the city for people. Digitisation of city walks to enhance urban co-creation
- 819** ID183 CAROLINA PACCHI
Just cities in the digital era. Hybrid spaces, bodily presence and planning
- 823** ID192 ALVARO GONCALVES, PEDRO GUILHERME, SOFIA SALEMA
Rescuing an Unfinished Vision: A representation of the semi-dome of the Malagueira neighbourhood through Immersive Virtual Reality
- 827** ID199 MARKELLA MENIKOUI, ADONIS CLEANTHOUS
Prosthetic intelligence: Bridging the corporeal-ethereal gap in perceptions of space making
- 831** ID204 PRITCHARD DOUGLAS, DARIA BELKOURI
Assessing quality in the convergence of the physical and virtual: Challenges and imperatives
- 834** GERARDO SEMPREBON
5/ ENDNOTES

Spaces, Bodies, Design A Multidisciplinary Perspective

MARCO BOVATI, ANNA MORO, DANIELE VILLA

In an era in which many aspects of our society, lives, and disciplines are shifting - sometimes too lightly, others forcibly - from the physical to the immaterial, from the corporeal to the virtual, EURAU Milan 2024 Conference reflects on the current and future role of corporeality, examining what has changed and is changing, what is effectively irreducible from the material to the virtual intangible dimension and what, in terms of values and experiences, is gained or lost in this shift.

EURAU Milan 2024 solicits researchers and professionals in the spheres of spatial studies, from architecture to urban and environmental design, planning and policies, artistic disciplines and experimentations, etcetera, to reflect on the conditions/practices/tools that require the presence of a body or several bodies in a space, whether small or large, indoor or outdoor, in order to be lived, experienced and realised authentically, and if so, how this is different and why this is crucial compared to technologically mediated, non-corporeal, non-material, even non-human, experiences.

Considering diverse points of view and arguments, the perspective of corporeality appears intimately linked to architecture and urbanism in multiple ways and through the many approaches over time.

This vital link can be seen, for instance, if we consider the many perspectives from which space can be conceived: from the uses and the interpretations of space through 'practices', through a culturally-mediated perception of space, to the role of space itself as a source of sensory and environmental stimuli, to the production of space through design, or even to the social usability of space as a container of practices and events.

Following this perspective, the spaces of architecture, the city and the environment can be inhabited thanks to, by and through the body and its physical extension. The body is the transit of the relationship between design and space, practices and society. Placing bodies at the core of our disciplinary discourses means interfering with their material, organic and affective narrative, embracing their uncertainties and stumbles and dealing with the consequences. Bodies are traces of a creative multiplicity, interlaced with the possibility of an open and continuous dialogue with the world.

This multifaceted relationship occurs in two principal ways: one as 'acting bodies', bodies that touch, bodies that act, bodies as actors of practices and

actions, and as a tool for transformative reflection on space; and one as 'acted bodies', bodies as filters, bodies affected by the physical-spatial and environmental conditions of space. This dialectic between the body as an active medium and the body as passive exposure derives from Gilles Deleuze's reading of Spinoza and carries with it the idea that 'the body is the world, is made of the world, is at one with the world.'

Starting from the intention of investigating the space-body relationship, its modifications and resistances, the basic questions EURAU Milan 24 intends to ask are:

/ Is this condition still actual? How much has it changed, and will it change in the coming years?

/ What cannot change as it is effectively irreducible from the material to the virtual?

/ How has the body-space relationship changed with the advent of new technologies?

/ What still can a body do, and what can only be done by a body?

/ What is the added value of a body-centred approach to our disciplines?

The issue can be approached by questioning boldly a series of recent or well-known assumptions, which refer to different disciplinary fields but share a core theme: the co-presence and relationship of bodies in space.

Furthermore, in the current global conditions – full of innovation but with multiple crises that must be overcome through collaboration and research aiming towards a different future – researchers and professionals are driven to question even the fundamental traits of our disciplines profoundly. What the recent crisis, starting from Covid-19, has reiterated is indeed the centrality of the individual bodies and of bodies interacting in space.

Among the many emerging issues recently developed at the international level – for instance, the European Agenda or the international SDGs (Sustainable Development Goals), which points to sustainability, justice, equality, freedom, hospitality, health, a new and fairer economy, care for the most fragile people and territories, memory, beauty and socio-spatial transition – EURAU Milan 24 aims to underline and integrate the aspect of 'togetherness' that can be defined as being together, sharing practices and values through bodies and multiple, even non-physical bonds that occur within space.

The format of the conference is the result of a shared reflection that started with a research seminar on the current state of scientific events, held in March 2023 at Politecnico di Milano. As our network is based on a deep-sharing approach to research and design, we have identified a flexible format that includes both online and in-presence moments. The integration of modes has allowed us to promote a long-term format going from the summer of 2023 to the summer of 2024, called The Road to EURAU, which has engaged participants in bringing their contribution to the table and shaping the conference themes and contents.

We have proposed five preparatory thematic meetings organised by EURAU network partners to discuss this topic in advance. Each meeting introduced a different thematic approach to the conference topic. The outcomes of the meetings helped refine the thematic sessions of EURAU Milan 24 and the preparation of the open call. The aim was to activate an ongoing and wide-ranging discussion, fed by other forms of communication (a forum, an Instagram profile, a website), leading up to June 2024 as the final moment in which - IN-PRESENCE - we have met to draw conclusions.



The EURAU Milan 24 Conference addressed issues that delve into the tapestry of the relationship between body and space, framed and articulated within five thematic areas:

/CONCEIVED, /INTER-ACTIVE, /AFFECTED, /VULNERABLE and /AUGMENTED.

These five themes, as adjectives of the body as well as of the space, are intended as facets of a unique narration that is brought into focus through the exploration of each area. Cross-reading these themes provides a comprehensive lens through which to investigate the dynamic interplay and the multiple layers underlying the body-space relationship.

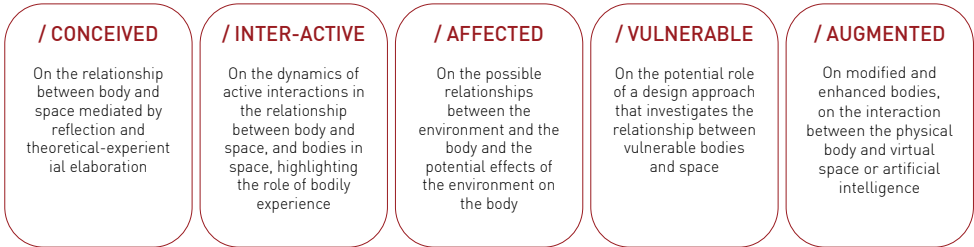
Specifically, **/CONCEIVED** anchors the exploration in the realm of reflective and theoretical-experiential elaboration and its foundations. Going beyond the notion of body-space relations grounded in proportions, measurements and geometry, there is an opening towards new forms of action, inter-action and reflection.

In the second session, contributions are asked to delve into the adjective **/INTER-ACTIVE**, which refers to the dynamics of active interaction in the body-space relationship, highlighting how movement, gestures, and sensory engagement contribute to craft a tapestry weaving together the materiality of space and the embodied experience.

The third theme, **/AFFECTED**, refers to the possible relationships and actions of the environment on the body, where the environment is understood as the artificial urban territory but also the natural and the natural and climatic domains. This thematic area underscores the profound impact of external factors on bodily experience.

/VULNERABLE bodily experience as well as climatic and natural consequences on space, points at the potential role of a design approach that investigates the relationship between fragile bodies and space. The session is dedicated to the manifold layers of vulnerabilities of bodies in space, and their role as a critical contribution to refocusing our disciplines.

The last thematic area, **/AUGMENTED** disciplines towards the design and reflection of inclusivity, is dedicated to modified and enhanced bodies and the interaction between the physical body and virtual space or artificial intelligence. It explores the evolving landscape of technologically mediated interactions, as well as contemporary art interventions.



The thematic areas are intersected transversally by five operational perspectives: **Theory, Research, Design, Education and Retrospective.**

These propose five possible approaches that can also be combined within the same contribution.

The five approaches are based on the idea that the theme of the body-space relationship can be investigated according to different and interrelated modalities and perspectives, allowing for the various theoretical and practical experiences that characterise the activity of architects and urban planners, whether they operate as historians, theorists, designers, educators or professionals.

The thematic areas and transversal perspectives form a matrix where contributions can be freely placed.



/ COMMITTEES

/ MILANESE ORGANIZING COMMITTEE

DAStU-Politecnico Di Milano

Marco Bovati – Chair

Anna Moro – Chair

Daniele Villa – Chair

Virginia Vecchi – Event Manager

Alisia Tognon

Gerardo Sempregon

Francesco Airoidi

Silvia Di Mauro

Kevin Santus

Stefano Sartorio

Arianna Luisa Nicoletta Scaioli

Marco Vedoà

Maria Elena Ciucci

Giulia Citro

Ekin Olkay

Erica Ventura

/ HONOUR COMMITTEE

Donatella Sciuto, Rector at the Politecnico di Milano

Ilaria Valente, Vice-Rector for International Affairs at the Politecnico di Milano

Massimo Bricocoli, Director of DAStU Department – Politecnico di Milano

Andrea Campioli, Dean of AUIC School – Politecnico di Milano

/ INTERNATIONAL ORGANIZING COMMITTEE

Hocine Aliouane-Shaw, ENSAP Bordeaux

Joaquín Alvado Bañon, University of Alicante

Roberta Amirante, Napoli Federico II

Carla Colavecchio, UMA – Umeå Universitet

Roberta Amirante, Napoli Federico II

Pelin Dursun, Istanbul Technical University

Fatma Erkök, Istanbul Technical University

Carla Garrido de Oliveira, University of Porto

Paola Filipa Guerreiro, University of Porto

Maria Hadjisoteriou, University of Nicosia

Joaquín Ibáñez Montoya, UPM Madrid

Beatrice Jöger, Ion Mincu University

Angela Kyriacou Petrou, University of Nicosia

José Lage, University of Porto

Gisela Lameira, University of Porto

Maria Martinez Sanchez, RGU Aberdeen

Maria Luna Nobile, UMA – Umeå Universitet

Madalena Pinto Da Silva, University of Porto

Maria Jose Pizarro, UPM Madrid

Gülsün Saglamer, Istanbul Technical University

Javier Sánchez Merina, University of Alicante

Paola Scala, Napoli Federico II

Alessandra Swiny, University of Nicosia

/ INTERNATIONAL SCIENTIFIC COMMITTEE

Aksoy Meltem, Istanbul Technical University, Faculty of Architecture

Alemany Ester Gisbert, Alicante University

Aliouane-Shaw Hocine, UMR-CNRS Passages, Ecole Nationale Supérieure d'Architecture et de Paysage de Bordeaux

Al Jumaily Arwa, Scott Sutherland School of Architecture, Robert Gordon University

Alvado Bañón Joaquín, Alicante University

Amirante Roberta, University of Naples Federico II

Ionu Anton, "Ion Mincu" University of Architecture and Urban Planning

Armitt Matthew, Birmingham School of Architecture and Design

Ata Zeynep, Mardin Artuklu University, Faculty of Architecture

Avcı Ozan – MEF University, Faculty of Arts, Design and Architecture

Avilés Angel Benigno González, Escuela de Arquitectura de Alicante

Barosio Michela., Politecnico di Torino

Baslo Meltem, Istanbul Technical University /Faculty of Architecture

Bassanese Silvia, Scott Sutherland School of Architecture, Robert Gordon University

Belkouri Daria, Scott Sutherland School of Architecture, Robert Gordon University

Berlingieri Fabrizia, Politecnico di Milano

Bevan Whitney, Scott Sutherland School of Architecture, Robert Gordon University

Bianchi Irene, Politecnico di Milano

Boehm Carola, Staffordshire University

Bovati Marco, Politecnico di Milano

Bozzuto Paolo, Politecnico di Milano

Bricocoli Massimo, Politecnico di Milano

Brown Martin, Staffordshire University

Browne Jemma, Birmingham School of Architecture and Design / Birmingham City University

Cálix Teresa, FAUP Faculdade de Arquitectura da Universidade do Porto

Campi Massimiliano, University of Naples Federico II

Capener David, Birmingham School of Architecture and Design

Carvalho Antonio, Politecnico di Milano

Casino David, ETSAM Universidad Politécnica de Madrid

Ciriqian Pablo Martí, Alicante University

Cirugeda Almudena Nolasco, Alicante University

Coelho Rodrigo, FAUP Faculdade de Arquitectura da Universidade do Porto

Collecchio Carla, Umeå University, Umeå School of Architecture

Colmenares Vilata Silvia, ETSAM Universidad Politécnica de Madrid

Columbano Alessandro, Birmingham School of Architecture and Design

Comsa Daniel, "Ion Mincu" University of Architecture and Urban Planning

Coppetti Barbara, Politecnico di Milano

Costa Sandra, Birmingham School of Architecture and Design

Cozza Cassandra, Politecnico di Milano

Day Jonathan, Birmingham Institute of Creative Arts

Derer Hanna, "Ion Mincu" University of Architecture in Bucharest

Deveci Gökay, Scott Sutherland School of Architecture, Robert Gordon University

Dusoio Elena-Codina, "Ion Mincu" University of Architecture and Urban Planning

Dring Michael, Birmingham School of Architecture and Design

Dundjerovic Aleksandar, Royal Birmingham Conservatoire

Dursun Çebi Pelin, Istanbul Technical University, Faculty of Architecture

Erckrath Charlotte, Bergen School of Architecture

Erkök Fatma, Istanbul Technical University, Faculty of Architecture

Fairburn Jon, Staffordshire University

Fatigato Orfina, University of Naples Federico II

Fontanella Elena, Politecnico di Milano

Frost Christian, Head of School of Architecture at London Metropolitan University

Gameira Gisela, FAUP Faculdade de Arquitectura da Universidade do Porto

García-Germán Jacobo, ETSAM Universidad Politécnica de Madrid

García Mayor Clara, Alicante University

Garrido Carla, FAUP Faculdade de Arquitectura da Universidade do Porto

Ghyka Celia, "Ion Mincu" University of Architecture and Urban Planning

González Avilés Ángel Benigno, Alicante University

Gratton Nicola, Staffordshire University

Guerreiro Filipa de Castro, FAUP Faculdade de Arquitectura da Universidade do Porto

Hadjisoteriou Maria, University of Nicosia

Hadjichristou Yiorgos, University Of Nicosia

Ibáñez Montoya Joaquín, ETSAM Universidad Politécnica de Madrid

Jöger Beatrice-Gabriela, Ion Mincu University of Architecture and Urban Planning

Jones Martin, Staffordshire University

Jones Mat, Birmingham School of Architecture and Design

Kleanthouse Adonis, University of Nicosia

Lage José Alberto, FAUP Faculdade de Arquitectura da Universidade do Porto

Lameira Gisela, FAUP Faculdade de Arquitectura da Universidade do Porto

Lepratto Fabio, Politecnico di Milano

Machado Carlos, FAUP Faculdade de Arquitectura da Universidade do Porto

Marchigiani Elena, Università degli Studi di Trieste

Marco Elena, University of the West England, Department of Architecture and the Built Environment

Martínez Sánchez María J., Scott Sutherland School of Architecture, Robert Gordon University

Menikou Markella /University of Nicosia

Meraz Fidel A., University of the West England, Department of Architecture and the Built Environment

Mihaila Marina, "Ion Mincu" University of Architecture in Bucharest

Moreno Joaquim, FAUP Faculdade de Arquitectura da Universidade do Porto

Moro Anna, Politecnico di Milano

Nieto Enrique, Alicante University

Nifosi' Chiara, Politecnico di Milano

Nobile Maria Luna, Umeå University, Umeå School of Architecture

Nourrigat Elodie, National Superior School of Architecture of Montpellier

Oldani Andrea, Politecnico di Milano

Oliveira Marta, FAUP Faculdade de Arquitectura da Universidade do Porto

Pacchi Carolina, Politecnico di Milano

Paker Nurbın, Istanbul Technical University, Faculty of Architecture

Pamfil Françoise, "Ion Mincu" University of Architecture and Urban Planning

Parra José, Escuela de Arquitectura de Alicante

Pasqui Gabriele, Politecnico di Milano

Paulino Raquel, FAUP Faculdade de Arquitectura da Universidade do Porto

Pérez del Hoyo Raquel, Escuela de Arquitectura de Alicante

Petrou Angela, University of Nicosia, Architecture Department

Pinto da Silva Madalena, FAUP Faculdade de Arquitectura da Universidade do Porto

Piscopo Carmine, University of Naples Federico II

Pizarro Juanas María José, ETSAM Universidad Politécnica de Madrid

Portschy Szabolcs Dávid, Budapest University of Technology and Economics

Póvoas Rui, FAUP Faculdade de Arquitectura da Universidade do Porto

Pritchard Douglas, Scott Sutherland School of Architecture, Robert Gordon University

Rachel Sara, Birmingham School of Architecture and Design

Rice Louis, University of the West England, Department of Architecture and the Built Environment

Rodrigues José Miguel, FAUP Faculdade de Arquitectura da Universidade do Porto

Rueda Jiménez Óscar, ETSAM Universidad Politécnica de Madrid

Salamer Gülsün, Former Rector, Istanbul Technical University

Salman Huda, Scott Sutherland School of Architecture, Robert Gordon University

Sánchez Merina Javier, Alicante University

Scala Paola, University of Naples Federico II

Scott Jonathan, Scott Sutherland School of Architecture, Robert Gordon University

Semprebon Gerardo, Politecnico di Milano

Serrano Estrada Leticia, Escuela de Arquitectura de Alicante

Setti Giulia, Politecnico di Milano

Sirvent Dani, Escuela de Arquitectura de Alicante

Sousa José Pedro, FAUP Faculdade de Arquitectura da Universidade do Porto

Stan Angelica, "Ion Mincu" University of Architecture and Urban Planning

Stevens Sarah, University of Brighton

Swiny Alessandra, University of Nicosia, Architecture Department

Tognon Alisia, Politecnico di Milano

Tolve Valerio, Politecnico di Milano

Travasso Nuno, FAUP Faculdade de Arquitectura da Universidade do Porto

Trisciuglio Marco, Politecnico di Torino

Valente Ilaria, Politecnico di Milano

Vialard Alice, Northumbria University, Department of Architecture

Victoria Michele, Scott Sutherland School of Architecture, Robert Gordon University

Vila Domini David, Scott Sutherland School of Architecture, Robert Gordon University

Villa Daniele, Politecnico di Milano

Voltini Marco, Politecnico di Milano

Vowels Hannah, Birmingham School of Architecture and Design

Williams Julian, Westminster University London

Wishart Gillian, Scott Sutherland School of Architecture, Robert Gordon University

Xiao Jieling, Birmingham School of Architecture and Design

Zahariade Ana Maria, "Ion Mincu" University of Architecture and Urban Planning, The Doctoral School of Architecture

Zaman Quazi, Scott Sutherland School of Architecture, Robert Gordon University

Zanotto Francesca, Politecnico di Milano

Zhao Fang, Staffordshire University

Zmfir Mihaela, "Ion Mincu" University of Architecture and Urban Planning

/ KEYNOTE SPEAKERS

/GABRIELE PASQUI, graduated in Socio-Economic Disciplines and in Philosophy and PhD in Urban policies, is full Professor of Urban Planning at Politecnico di Milano, Department of Architecture and Urban Studies. He is President of the Scientific Committee of Urban@it, National Centre for the Study of Urban Policies, former coordinator of the Research Project "Excellence Department – Territorial Fragilities" funded by the Italian Ministry of University and Research and former Director of the Department of Architecture and Urban Studies (2013-2019). His key scientific interests are: interpretations of contemporary cities dynamics, urban populations and policies, strategic planning, urban governance, urban regeneration tools.

"Bodies, encounters, scenes. City assemblages and design strategies"

/RENATO BOCCHI, professor of Theories and Design of Architecture at IUAV University of Venice till 2019 and Director of Architectural Design Dpt. from 2006 to 2009. He coordinated the research program Re-cycle Italy, involving 11 Italian Universities (2013-16). He held lectures in Spain, Portugal, Argentina, Scotland, Ireland, Greece, and Slovenia. From 2015 to 2020 he promoted cultural initiatives among Iuav University, Ca' Pesaro Museum of Modern Art, and Querini-Stampalia Foundation. From 2019 onwards he is collaborating with the Doctorate Schools at Iuav Venice and Sapienza University of Rome. The dominant topics of his research and publications are the relationship between arts, architecture, city, and landscape. His most recent book: "Spazio arte architettura. Un percorso teorico", Carocci, Rome, 2022.

"Art And Architecture. Between Space And Body"

/CRISTINA BIANCHETTI, architect, PhD in Urban Planning, is full professor of Urban Planning at the Interuniversity Department of Regional and Urban Studies and Planning, in Politecnico di Torino, where she has also served as Deputy Dean. Her work focuses on themes related to living spaces and the critique of contemporary urban planning projects. Her presence in the cultural sphere is evidenced by her participation in and coordination of numerous research projects and by her many writings. Her latest books, "Corpi tra spazio e progetto" (Mimesis 2020 – English edition Jovis, 2021) and "Le Mura di Troia: lo spazio ricomponi i corpi" (Donzelli 2023), explore urban planning projects and their practices from a perspective centered on the body, revealing unexpected scenarios that emerge when the viewpoint shifts away from the actor, decision-maker, technician, or a legal or statistical entity, to that of a body that cannot be reduced to its abstractions.

"Insights for a theory of embodiment in urbanism"

/FRANCO FENOGLIO, a nuclear engineer at the Polytechnic University of Turin, he joined Thales Alenia Space (then Aeritalia) in February 1990, dealing with thermal and environmental control of spacecraft. In the late 1990s, he became Chief Engineer of the Nodes in ISS, leading "Nodo 3" until the integration and launch campaign in 2010. Subsequently, he started the Orion European Vehicle Service Module and managed exploration studies and advances. Today, he is Director of Human and Robotics Planetary Exploration, including Thales Alenia Space programs running for Artemis (lunar orbit and surface) and robotics to Mars. As part of his career, he has interacted with major Space Agencies (NASA, ESA, ASI) and major international companies.

"Beyond Earth. Thinking and designing solutions for humans in the (deep) Space"

3 / AFFECTED

/ On the possible relationships and actions of the environment on the body. Built and natural environments can be considered spatial agents acting on bodies in their various features. This corporeal view seeks innovative ways to engage people with environmental challenges, tracing the relationship between the environment and bodies in guiding a spatial transformation and cultivating a shared understanding of this perspective on 'affected' bodies.

Rather than relying on ideological stances, we draw inspiration from the experiential and corporeal aspects of the human body, how they are affected by architectural and urban spatial configurations, as well as by thermal comfort and – in general – the impact of the natural/artificial environment on it. This theme encourages disciplines to interact with frontier knowledge, investigating the relationship between the body/space and other entities and organisms.

Light, energy, temperature, fluids, and microorganisms generate/inform/form the experience of body/space, mutually modifying each other. Moreover, considering the physical and social body as a perceiving element, comprehending and interacting with the environment, and creating opportunities for environmental transformation also means investigating the role of corporeity concerning commons in their action on territories and urban spaces.

To delve into the theme of affected bodies and expand the gaze towards the condition of the climate crisis means to question the current resilient practices and post-disaster modification from a body-centred perspective. Accordingly, it means observing emergencies but also temporally broadening the view towards the future to understand and interpret risk phenomena, environmental but not only, which affect daily life, the possibilities for transformation, and the relationship between body and space. By assuming this perspective, the session could touch on the contemporary definition of this relation and the historical transformation of the issue, looking at moments of shifting conditions or significant understanding of the topic.

The session welcomes contributions which include but are not limited to:

- / The built and natural environment/body relationship;
- / The body/environment relationship in defining relationships with climate and comfort issues;
- / The body/space relation as an organism, where light, energy, temperature, fluids, and microorganisms generate/inform/shape the experience of the body-space, modifying each other;
- / The city as a place of bodies: the relationship between body, city, and commons;
- / The body affected by climate change: resilient transformation practices, and post-disaster transformations;
- / The relationship between body/climate/environmental risk.

Julia Nerantzia Tzortzi¹, Maria Stella Lux²

^{1,2} Politecnico di Milano, DABC - Department of Architecture Built Environment and Construction Engineering

¹julia.georgi@polimi.it ²maria.stella.lux@polimi.it

¹mariafranca.arq@gmail.com

Citizens as main characters in urban adaptation.

People's experience and contribution in the development of Decision Support Systems

Key Words

Urban resilience, Citizens as observatories, Urban data, Participation, Sustainable development

Climate Change (CC) is increasingly manifesting tangible effects on the environment in which we live, particularly within urban settings. Heat peaks, extreme weather events, periods of drought, followed by intense precipitation and flooding, are increasingly and significantly impacting the lives of citizens. In the face of this transformation, society is called upon to take action, with research playing a prominent role. The international scientific community has been actively engaged for decades in studying mitigation and adaptation strategies to support and guide decision-making processes and urban planning. However, citizen involvement remains relatively limited [Cruz et al. 2023], leading to a disconnection between the knowledge produced and the theoretical possibilities of action on one hand, and real-world practices on the other. This inclusion and impact effectiveness gap has also been acknowledged by the European scientific community, which is moving forward a stronger integration of citizens science and participatory processes within the application for urban resilience and adaptation paths.

Indeed, while in recent decades, CC research has primarily focused on the role of Earth Observation (EO) data, the debate on the integration between EO data and so-called citizens-based data has gained prominence in recent years. The big data provided by satellites offer a wealth of information about the entire Earth's surface, allowing for the extension and democratization of knowledge processes. However, EO data alone are not sufficient, nor with the integration and validation provided by in-situ and ground-based data. Hence, the establishment of a robust participatory planning foundation is imperative for effective and sustainable decision-making in urban planning. This foundation should consider both evolving behaviors and urban metabolism and it requires new methods for actively engaging citizens in the understanding of the problems and in the definitions of common paths for adaptation. This new direction has been clearly expressed by the strategic guidelines of the GEO community, which moved from the priorities of data and services accessibility to the for the post 2025

strategy aimed at providing “Earth Intelligence for all” [GEO 2023]. The notion of Earth Intelligence comprises precisely integrates Earth and social science to derive knowledge and insights that inform strategic decisions, build capacities and empower society to address environmental, societal, and economic challenges.

In this continuously evolving framework, the H2020 HARMONIA project provides a relevant example of data integration and priority inclusion of citizens. HARMONIA aims to deliver an Integrated Resilience Assessment Platform (IRAP) and thematic Decision Support Systems (DSSs), supporting adaptation and mitigation measures of the Paris Agreement. The project takes into account the local ecosystems of European urban areas of four pilot cases (Milan – Italy, Ixelles – Belgium, Sofia – Bulgaria; Piraeus – Greece), following an integrated and sustainable approach by incorporating the active communities’ participation. Among different patterns of citizens engagement ranging from the unilateral search for feedbacks through questionnaires to the use of citizens as “sensors” providing them with mobile devices, HARMONIA opted for the active engagement of citizens as “observatories” [Barsukova et al. 2021]. In this approach, citizens are on one side the receiver of informative contents that are generally limited to the community of experts and practitioners and on the other side are called to express their opinions and needs, participating in the knowledge process and providing relevant inputs for orienting the final product. The experience gained over the past two and a half years of the project has allowed us to propose various opportunities for direct engagement with the citizens of the four HARMONIA pilot cities. In all cases, the experiential dimension has proven crucial for establishing a shared platform for discussion and mutual understanding. This is true at the level of theoretical discussion, where the communication of scientific data is made accessible and comprehensible by connecting such data with their practical significance and tangible impact. It is also evident in the phase of gathering input from citizens, who communicate priorities and perceived needs based on their physical experience of the urban environment. Lastly, this is observed in the delicate phase of participatory construction of a shared vision, which necessarily requires the immersive experience of on-site inspections or visits to key locations in the city to become aware of local issues and stimulate a transformative vision.

In conclusion, in support of the trajectory towards greater active citizen inclusion in decision-making processes for urban adaptation, and drawing on the experimentation conducted in the HARMONIA project, corporeity and the experiential dimension prove to be the foundational level from which to build participatory processes, shared discussions, and a collective understanding of complex issues, posing a significant challenge for researchers and experts in CC adaptation and urban planning studies.

REFERENCES

Barsukova, Y., Duivon, L., Elisei, P., Dimitriu (Leopa), S. (2021). Harmonia Stakeholders Engagement Plan, D2.1. *HARMONIA*. Horizon 2020 Grant Agreement No 101003517, European Commission.

Cruz, S., Graça, M., Conceição, P., Neset, T. S., & Juhola, S. (2023). Exploring the affective dimension in citizen science to support urban climate adaptation: a conceptual framework. *Journal of Environmental Planning and Management*. DOI: 10.1080/09640568.2023.2271162

EEA - European Environment Agency, Kazmierczak, A. (2020). *Urban adaptation in Europe – How cities and towns respond to climate change*. Publications Office of the European Union. DOI: 10.2800/324620

GEO - Group on Earth Observations (2023), *Earth Intelligence For All - GEO POST 2025 STRATEGY*, GEO Secretariat. Geneva, from <https://earthobservations.org/storage/app/media/documents/Key-Documents/GEO%20Post%202025%20Strategy%20Full%20Document.pdf>

Graça, M., Neset, T. S., Juhola, S., & Cruz, S. (2022). Supporting Urban Climate Adaptation Governance Through Citizen Sensing. In W. Leal Filho, D.G. Vidal, M. A. P. Dinis, & R. C. Dias (Eds), *Sustainable Policies and Practices in Energy, Environment and Health Research*. World Sustainability Series. Cham: Springer. DOI: 10.1007/978-3-030-86304-3_11

Lenzholzer, S., Carsjens, G. J., Brown, R. D., Tavares, S., Vanos, J., Kim, Y. J., & Lee, K. (2020). Urban climate awareness and urgency to adapt: An international overview. *Urban Climate*, 33, 100667. DOI: 10.1016/j.uclim.2020.10066

Lobo, J., Aggarwal, R. M., Alberti, M. et al. (2023). Integration of urban science and urban climate adaptation research: opportunities to advance climate action. *npj Urban Sustain*, 3, 32. DOI: 10.1038/s42949-023-00113-0

Uittenbroek, C. J., Mees, H. L. P., Hegger, D. L. T., & Driessen, P. P. J. (2019). From Public to Citizen Responsibilities in Urban Climate Adaptation: A Thick Analysis. In J. van der Heijden, H. Bulkeley, C. Certomà (Eds.), *Urban Climate Politics: Agency and Empowerment* (pp. 171-189). Cambridge: University Press.