CONFERENCE S.ARCH ARCHITECTURE AWARD 2023

International Architecture Conference with AWARDs I 04-06 April I Berlin, Germany

S.ARCH

CERTIFICATE OF COMPLETION

This is to certify that

İrem Küçük

Name

Gazi University, Architecture Faculty
Department of Architecture

Institution

Has participated in the 10th International Conference on Architecture and Built Environment: S.ARCH 2023, held on April 04-06, 2023 in Berlin, Germany. We confirm presentation of the contributed work in the oral presentation session.

Sincerely,

Berlin, 06 April 2023

S.ARCH
Leitensteig 32
91058 Erlangen – GERMANY
www.s-arch.net
conference@s-arch.net

S.ARCH 2023

04-06 April I Berlin, Germany

Tuesday, 04.04.2023

Conference Opening 09.20-09.30

Session 1 09.30-11.00 Room No. 6	1	ARCHITECTURAL COMPARISON OF FOUR NEW DEAL COMMUNITIES Lisa Tucker, Gregory Galford
	2	RECLAIMING A SENSE OF PLACE WATERFRONT REVITILIZATION THROUGH THE GENERATIONAL LENS Alexandra Kehoe
	3	APPROACHES TO THE CRITICAL STUDY OF THE ITALIAN COASTAL TERRITORY: A REVIEW OF TOOLS AND A STRATEGIES Minuto Giulio
	4	AI-ASSISTED EVOLUTIONARY AND BIO-INSPIRED SCENARIOS FOR CARBON-POSITIVE RESILIENCE MASTER PLANNING OF COASTAL CITIES Thomas Spiegelhalter
	5	BIOMIMETIC DESIGN EDUCATION: BENEFITS OF IMPLEMENTING COMBINED METHODOLOGIES Mercedes Garcia Holguera
	6	PHYTOREMEDIATION LIVING WALLS FOR CO2 REDUCTION AND INDOOR AIR FILTRATION Mariami Maghlakelidze

Coffee Break 11.00-11.30

Session 2 11.30-13.00 Room No. 6	1	CREATIVE DEMOLITION; A CONTINUING TRADITION OF EXPERIMENTAL DESIGN IN DESSAU Rene Davis
	2	STAKEHOLDER RESEARCH IN THE BUILT ENVIRONMENT: ASSESSING EMERGING METHODS FOR A POST-PANDEMIC WORLD Alexandra Staub, Sana Ahrar
	3	KIT OF PARTS HOMES: DELIVERING CUSTOMIZED, SUSTAINABLE DWELLINGS AT SCALE Alexander Boucher
	4	THE TOPOLOGICAL GRAMMAR OF FORMS Wonseok Chae
	5	IDENTITY: PLACE-MAKING WITHIN THE URBAN ENVIRONMENT Merlina Operta
	6	COASTAL THRESHOLDS DESIGNING THE CITY-SEA BOUNDARIES IN MEDITERRANEAN ENVIRONMENTS Alexios Tzompanakis

Session 3 11.30-12.45 Room No. 4	1	A VEGETAL HISTORY OF ARCHITECTURE Veli Şafak Uysal
	2	LEARNING TO DOWNSIZE FROM TINY HOUSE OCCUPANTS: A CASE FROM A DISASTER RELIEF SETTLEMENT IN LUMAJANG, INDONESIA Setiamurti Rahardjo
	3	LANDSCAPE CHARACTER: RECONSIDERING RELATIONSHIPS AMONG APPEARANCE, PERFORMANCE, AND DRAMA Allan Shearer
	4	ARCHITECTURAL ACTIVISM OF HISTORICAL AFRICAN AMERICAN COMMUNITIES THROUGH MEMORY TQuion Smith
	5	DECIPHERING THE INFORMAL: BORDER TRADE LEFTOVERS AND THE TANDOORI HOUSE Zeynep Ataş
	6	LIFE CYCLE ASSESSMENT OF A RED BRICK IN SAN LUIS HUEXOTLA, TEXCOCO, STATE OF MEXICO, MEXICO Javier Aguirre Contreras

3 Courses Conference Lunch 13.00-14.00

Session 4 14.00-15.30 Room No. 6	1	CITY IN TRANSITION: URBAN PROJECTS IN THE CENTRAL METROPOLITAIN AREA - RIO DE JANEIRO-BRAZIL Denise Pinheiro Machado
	2	LIFE IN THE URBAN PERIPHERY, A CASE FROM ISTANBUL: OMERLİ Guliz Ozorhon
	3	TRANSFORMATIONS AND CONTRASTS: FORMALLY DEVELOPED VS. LIVED CITY: THE CASE OF NOIDA Sana Ahrar, Aqsa Rafi
	4	DRONECOTE Angelos Floros
	5	THE LIVING BRIDGE Fernando De Aguiar
	6	RECIPES FOR BAKING BREAD: ARCHITECTURE AND FILM Sara Nesteruk

Online Session
14.00-15.15
(CET)

	1	THE ROLE OF MATERIAL EXPERIMENTS IN SHAPING DESIGN SPACE: THE EXPERIENTIAL CASES OF ATELIERZ Irem Küçük
	2	INTERACTIVE MODEL FOR STUDY PLAN SETUP OF ARCHITECTURAL ENGINEERING EDUCATION – JORDANIAN CASE IN DIGITAL ERA Anwaar M. Banisalman
	3	LOCALLY ACTIVE ARCHITECTURE Gabor Fabian
	4	2D-3D DATA FOR MACHINE LEARNING - PROBLEMS AND METHODS Sandra MANNINGER, Matias DEL CAMPO

Coffee Break 15.30-16.00

Session 6 16.00-17.30 Room No. 6	1	BUILDING WITH BIOLOGY: SYNTHETIC BIOLOGY AND ARCHITECTURE Alfredo Andia
	2	VACANT GAPS IN SHRINKING CITIES: THE LETHARGY, THE PROBLEM AND THE OPPORTUNITY Jiri Mika
	3	BIO-INSPIRED LEARNING ENVIRONMENTS AS PEDAGOGICAL INSTRUMENTS FOR ELEMENTARY SCHOOL DESIGN Gabriel Fernandez
	4	LIVING SELF-UPGRADING SHELTER: A BIODESIGN APPROACH FOR FUTURE OF SUSTAINABLE DISASTER RELIEF Sara Ghanbarzadeh Ghomi
	5	EXPERIENCE OF AGRICULTURAL BANK OFFICE DESIGN FOR SUSTAINABLE FUTURE Bilge Basaran
	6	HOUSING + FOOD PRODUCTION: GROWING COMMUNITY AND SUSTAINABLE URBAN LIVING IN JACKSONVILLE, FL Mariana Oliveira Capuchinho

Session 5 16.00-17.30 Room No. 4	1	THE HIP-HOP XPRESS Kevin Erickson
	2	LOUIS KAHN: FINDING DAYLIGHT IN LUANDA Martin Schwartz
	3	EVALUATION OF DESIGN STRATEGIES OF SUSTAINABILITY TO ARCHITECTURAL DESIGNS FROM 1970 TO THE PRESENT Mehmet Arif Aktog
	4	PAVEPRO - PERFORMATIVE SIDEWALK DESIGN Adam Kłak, Jakub Heciak, Magdalena Wojnowska-Heciak
	5	A MODERNISTCULTURALHERITAGECHALLENGE: JMM BUILDINGIN R IO DE J ANEIRO Andréa Borde, Alexandre Pessoa
	6	CARACAS RESILIENTE An Avant Garde Regeneration of the Rio Guaire Gabriel Gonzalez Depalo

Casual Conference gathering with the Awarding Ceremony, drinks and delicious appetizers
17.30-18:00

Wednesday, 05.04.2023

Session 7 09.30-11.00 Room No. 6	1	ANNEX TO HISTORICAL BUILDING: THREE CITY, THREE MUSEUM BUILDINGS Ilker Fatih Ozorhon
	2	USING NATURAL LIMESTONE FOR THE ACHIEVEMENT OF GREEN ARCHITECTURE Samy Kamel
	3	MULTI-OBJECTIVE OPTIMISATION OF ENERGY RETROFIT IN HOT-HUMID CLIMATES' OFFICE BUILDING Nissa Aulia Ardiani
	4	REMINDING OF PAST & BUILDING FOR FUTURE: JUDENPLATZ & FOLEY SQUARE IN 2000 Elif Suyuk Makakli, Nil Dogerlioglu
	4	ARCHITECTURAL TRAVELS, CULTURE AND DISSEMINATION: POST-WAR ERA INTERACTIONS BETWEEN TURKEY AND ITALY Ceren Hamiloglu, Ahsen Özsoy
	6	POTENTIALS OF RURAL-URBAN INTERSECTIONS IN ISTANBUL: THE CASE OF BAŞAKŞEHIR DISTRICT Özge Keskin

Coffee Break 11.00-11.30

Session 8 11.30-13.00 Room No. 6	1	SUSTAINABLE DESIGN ACCELERATOR: ADVANCING ARCHITECTURE STUDENTS' KNOWLEDGE IN SUSTAINABILITY AND ENTREPRENEURSHIP Omar al Hasawi
	2	MIGRATORY SPACES: THE LESSER-KNOWN SPACES DURING A REFUGEE'S JOURNEY Milad Mozari
	3	A SCENARIO BASED DESIGN STUDY AGAINST EARTHQUAKE FOR DOMESTIC INTERIORS Seniye Banu Garip, Ervin Garip
	4	STRATEGIES FOR ADAPTABLE ARCHITECTURE IN RELATION TO ARCHITECTURAL PRACTICES Marta Waloszkova
	5	URBANIZATION ON THE HISTORICAL LANDSCAPE OF BANGKOK'S INNER ORCHARDS: TRANSITIONS THROUGH DETERIORATIONS AND ADAPTATIONS Vudipong Davivongs
	6	EXTENDED REALITY WORKFLOWS FOR DESIGN TO CONSTRUCTION David Lee

Thursday, 06.04.2023

10.00-12.00	Conference Excursion: Sightseeing Berlin bus tour

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THE ROLE OF MATERIAL EXPERIMENTATION IN THE CONSTRUCTION OF DESIGN SPACE: THE CASE OF ATELIERZ

Irem Küçük*, Adnan Aksu

Gazi University

Gazi University Architecture Faculty Department Of Architecture Eti Mahallesi Yükseliş Sokak no:5 Maltepe/Ankara, 06570 & Ankara, Turkey; iremkucuk@gazi.edu.tr, adaksu@gazi.edu.tr

Abstract

The design space, as a unity of senses and expressions leading to the creation of architectural space, forms a spatiotemporal informational structure. The impact of design actions on material and immaterial things is crucial in shaping this structure. Intervening in the material things connects the design space to the real world. As digital technologies develop, new ways of interacting with material reality emerge, but the simultaneous encounter and experience with the unknown instantaneous response of the material to the action are still limited compared to analogue ones. In this context, this paper discusses the extension of the design space towards material reality in an architectural design studio that allows the use of all types of tools, digital or analogue, and encourages the interactive use of tools. It exemplifies an experimental pedagogical approach exploring material experimentation possibilities in architectural design education.

The first part of the study, which consists of three parts, carries out a conceptual analysis to provide a perspective on the construction of design space in the architectural design studio. The second part applies critical discussion to examine the fictionalization of the architectural design studio and the situating of design space for material experimentation. The third part reflects on the work of atelierz regarding the materialization of design space. Accordingly, the studio's proposal of installations and prototypes as channels of contact with material reality is introduced, and the studio's work is exemplified. Concerning the studio's experience, the benefits and problems of moving design practice into these channels have been identified.

Keywords

architectural design studio, design space, material experimentation, experimental pedagogical approach, atelierz

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