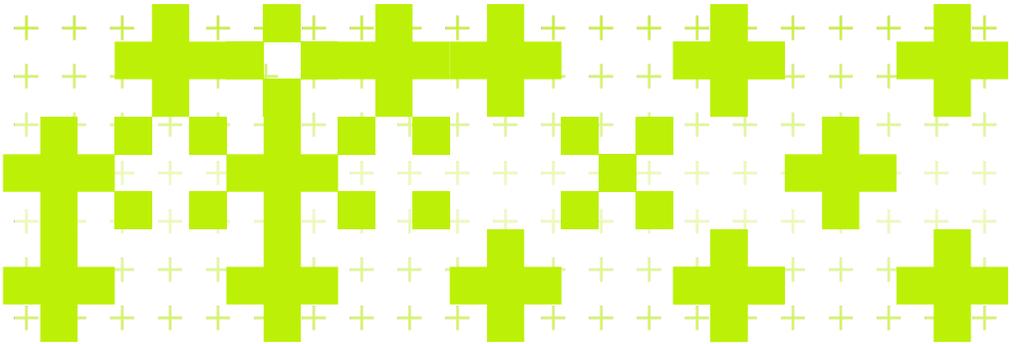


ABSTRACT BOOK

AR+DC

VOICE FROM THE GLOBAL SOUTH



ARCHITECTURE FROM THE MARGINS





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INTRODUCTION

The International Conference on Architecture Research and Design (AR+DC) is an annual international conference organized by the Department of Architecture, Institut Teknologi Sepuluh Nopember (ITS). First held in 2009 and officially named AR+DC in 2014, it has consistently brought together academics, researchers, and professionals to discuss architectural design, theory, history, environmental architecture, settlement, housing, and urban design. Its long-running success demonstrates the organizers' strong capacity and experience in managing international academic conferences.

AR+DC 2025, under the theme "**Voice From the Global South: Architecture from the Margins,**" aims to spotlight architectural practices in the Global South by prioritizing local knowledge and sustainable practices. The conference frames the Global South not just as a region, but as a transformative movement within the built environment. It will explore how local knowledge can effectively address development challenges, push boundaries, and promote inclusiveness, diversity, and representation. This event serves as a strategic forum to foster cross-disciplinary collaboration and dialogue among academics, practitioners, and communities from marginal and developing contexts, strengthening intellectual autonomy and locally-based architectural approaches.

WELCOMING MESSAGE

Rector of ITS

Assalamualaikum Wr. Wb.

Good morning,

Distinguished guests, esteemed speakers, colleagues, and participants. It is a great pleasure for me to welcome you to the Architectural Research and Design Conference (AR+DC) 2025, organized by the Department of Architecture, Institut Teknologi Sepuluh Nopember. I would like to express my sincere appreciation to the organizing committee for their dedication in preparing this event, and to all speakers and participants from various countries who have joined us today.

Since its establishment in 2009, AR+DC has served as an international platform for academics, researchers, and professionals to exchange ideas and research in the fields of architecture and the built environment. The conference reflects the Department's continued commitment to advancing architectural knowledge and strengthening international collaboration.

The theme of this year's conference, "Voice from the Global South: Architecture from the Margins," highlights the importance of recognizing diverse perspectives and local practices that shape architecture in the Global South. It reminds us that marginalized communities are not only subjects of architecture, but also agents of change who redefine its narratives through contextual practice and cultural resilience.

ITS strongly supports academic activities that foster the exchange of perspectives and collaboration among scholars and practitioners. We believe that discussions emerging from this conference will contribute to a more inclusive and equitable understanding of architecture in the global context. With great enthusiasm, I officially declare AR+DC 2025 open.

May this conference serve as a platform to exchange knowledge, nurture collaboration, and inspire innovation across borders. It also offers an opportunity for us to listen critically, reflect deeply, and envision a more inclusive and sustainable future for all. Thank you.

Wassalamualaikum Wr. Wb.

Prof. Dr. (HC) Ir. Bambang Pramujati, S.T., M.Sc.Eng., Ph.D., IPU, ASEAN Eng.

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TABLE OF CONTENTS

Introduction	4
Welcoming Message	5
List of Committee	7
Program Schedule	9
Table of Contents	11
Conference and Paper Theme	14
Keynote Speaker Members and Moderator	15
Keynote Speaker Abstracts	
<i>The “Southern” as a Methodological Intrusion on Urbanism</i> Prof. AbdouMaliq Simone	17
<i>The Expunged Urban Self-Image of Maritime Southeast Asia and its Adaptive Legacies</i> Imran bin Tajudeen, Ph.D.	18
<i>Bridging the Global North–South Divide: Rethinking Sustainable Architecture in Asia’s Megacities</i> Prof. Weijun Gao	19
<i>Sustainability and Nusantara Architecture in the Global Discourse</i> Prof. Dr. Ir. Murni Rachmawati, M.T.	20
Presenter Abstract	
Urban Design in the Global South	
<i>Post-colonial Wayfinding to the Landmark: Turns, Angles, and Visibility Across Time</i> Adibah Nurul Yunisya ¹ , Edward Verbee ¹ , Sisi Zlata-nova ² , Peter van Oosterom ¹	22
<i>In the Margins of Modernity: Sindujoyo’s Bale as Coastal Identity and Cultural Resilience</i> Utari Sulistyandari ¹ , Shafira Zulfa Audina ¹ , and Ayos Purwoaji ²	23
<i>Creating Urban Visual Identity Through Commercial Signage: A Comparative Study of Jakarta and Bandung</i> Marisa Sugangga ¹ and Angela Upitya Paramitasari ²	24
<i>Sensing Tunjungan: A Multisensory Take on Everyday Urban Life</i> Angger Sukma Mahendra, Utari Sulistyandari ¹ , Multazam Akbar Junaedi ¹ , Rabbani Kharismawan, and Fardilla Rizqiyah	25
<i>Reframing Walkability Through the Lens of Cultural Industry Infrastructure in Emerging Southeast Asian Cities</i> Setyo Nugroho, Phan Thi Phuong Thao, and Shafira Zulfa Audina	26
<i>Shaping Urban Kampung Space: The Role of Familiar Events and Community Practices</i> Izzah Desta Bastian Ramadhani, Defry Agatha Ardianta, and Setyo Nugroho	27
<i>Tracing Colonial Legacies from the Main Streets to the Kampung: Urban Artefacts and Everyday Heritage in Surabaya</i> Tanti Satriana Rosary Nasution and Mauricio Jhonatan Clavijo del Carpio	28

Architectural Design: Cultural Resilience and Innovation

<i>Analysis of Participatory Design-Based Learning Patterns in Raising Awareness of Violence Against Women in Public Spaces</i>	30
<i>R. Kharismawan, I. A. Dzikria, A. S. Mahendra, D. A. Ardianta, J. Krisdianto, and W. Setyawan</i>	
<i>Mine-Yours-Ours: The Collective Territory as Societal Everyday Practices</i>	31
<i>Defry Agatha Ardianta, Endy Yudho Prasetyo, and Multazam Akbar Junaedi</i>	
<i>Architectural Storytelling through Folding as Narrative Grammar</i>	32
<i>James Paul Arthur Awuy, Yandi Andri Yatmo, and Kristanti Dewi Paramita</i>	
<i>A Conceptual Framework of Materiality in Architecture: The Relationship of Belief, Knowledge, and Practice to the Visual Perception of Ecological Materials</i>	33
<i>Nareswaranandinya, V. T. Noerwasito, and A. Hayati</i>	
<i>Circulation Path Iterations for Architecture Wayfinding in Urban Transit</i>	34
<i>Fardilla Rizqiyah and Hervira Kusumadewi</i>	

Housing and Settlement: Narratives from the Margins

<i>Inhabiting Spaces of Displacement and Dispossession: A Global South Perspective</i>	36
<i>Ishita Chatterjee</i>	
<i>Learning from homemaking practices of Kampung Susun</i>	37
<i>Amelia Mega Djaja</i>	
<i>A Small Livable Home Using Primary Modular Furniture in Indonesia</i>	38
<i>Yanita Mila Ardiani and Deny Kris Ananda</i>	
<i>Migration and the Formation of Kampung in Surabaya: Historical Dynamics and Typologies of Inner-City Settlements</i>	39
<i>Tanti Satriana Rosary Nasution, Zuhrotul Mawaddatil Ula, and Mutia Sulistiastuti</i>	
<i>The Dialogue of Domestic and Productive Activities: Spatial Territory Negotiation in Productive House at Kampung Kue Rungkut, Surabaya</i>	40
<i>Adista Ismi Oktavia, Sarah cahyadi, and Purwanita Setijanti</i>	

History, Theory, and Criticism in Architecture

<i>Nusantara Architecture as an architectural theory from the Global South: The Case of Indonesia, Malaysia, and Thailand</i>	42
<i>Wasilah Sahabuddin and Moh. Sutrisno</i>	
<i>Unveiling the Meaning of Political Architecture: A Semiotic Analysis of the Malang City Parliament Building</i>	43
<i>Aqsha Fadhlu Putra and Susilo Kusdiwanggo</i>	
<i>Sacred Space Transformation in the Context of Power and Culture: Lessons from the Hagia Sophia Mosque (Turkey) and the Sultan of Ternate Mosque (Ternate, Indonesia)</i>	44
<i>Rizqy Salsabilah Fadhilah and Lisa Dwi Wulandari</i>	
<i>Monkey Codes: Re-investigating Indian Urbanity through Actor-Network Associations</i>	45
<i>Sourav Banerjea and Priyangini Arora</i>	
<i>The Architecture of Ambivalence: A Semiotic and Postcolonial Analysis of Gedung Sate</i>	46
<i>Nur Endah Nuffida, Fachreza Hafiz Tryrachman Hartono, and Airlangga Shah Maulana</i>	

<i>Symbolic Strategies in Contemporary Public Space: Unpacking Design Intentions at Alun-Alun Surabaya</i>	47
<i>La Ode Muhammad Illyin Abdul Rahman, Murni Rachmawati, and Setyo Nugroho</i>	
<i>Mapping the Spectrum of Nusantara Architecture: A Critical Reading of Modern Classicism Approach</i>	48
<i>Khusnul Hanifati, Multazam Akbar Junaedi, Dha-mira Saffana, and Nadia Salwa Syaharani</i>	
<i>The Beauty in Javanese Architecture: Exploring Proportional Systems and Aesthetic Insights on Joglo and Limasan House</i>	49
<i>Didit Novianto, Balqis R. Setyatita, Laurensa N. Cathabel, Shafiyah R. Putri, and Josephine S. A. Sampurno</i>	
Science and Technology in Architecture for Empowerment	
<i>Investigation of Airflow Movement towards Healthy Homes Requirement in The Post Pandemic Era</i>	51
<i>Inggit Musdinar Sayekti Sihing Yang Mawantu, Erni Setyowati, Eddy Prianto</i>	
<i>Lighting in Tropics: The Interplay Between Reflectance, Illuminance, and Visual Perception in an Architecture Studio</i>	52
<i>Nurfadilah Fathan, Ima Defiana, and Asri Dinapradipta</i>	
<i>Exploring the Cross-Modal Effect of Light Colour Temperature on Thermal Comfort in Student Co-Working Space</i>	53
<i>Asri Dinapradipta and Muhammad Naufal Hakim</i>	
<i>Light, Perception, and Mood: Evaluating Lighting Colour Temperature and Illuminance in Academic Co-Working Spaces</i>	54
<i>Asri Dinapradipta and Nurfadila Fathan</i>	
<i>A Journey: Conceptualizes Tropical Home for Autoimmune RA in Biophilic Context</i>	55
<i>Ima Defiana</i>	
PARALLEL SESSION SCHEDULE	attachment

TOPIC

Voice From the Global South: Architecture from the Margins

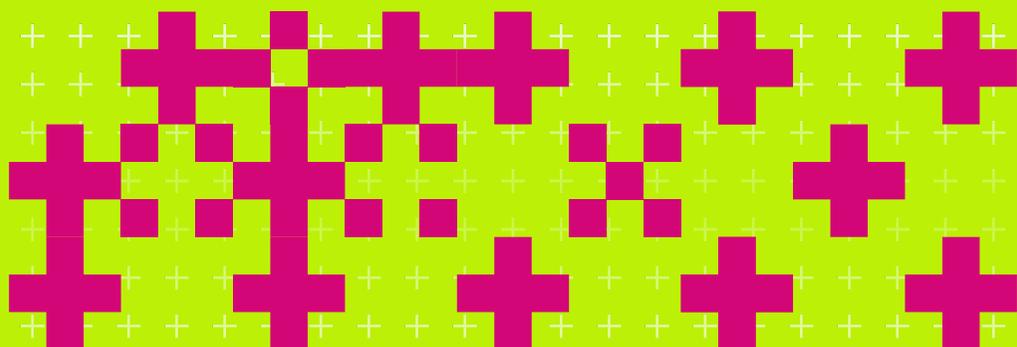
The term **Global South** is more than a metaphor for underdevelopment; it encapsulates a history of colonialism, neo-imperialism, and ongoing global inequalities in wealth, resources, power, and cultural dominance (Dados & Connell, 2012). As a critical framework, it illuminates the geopolitical, socio-economic, and cultural disparities that define regions in Latin America, Asia, Africa, and Oceania—areas often marginalized in the global narrative dominated by Europe and North America. Emerging from a history of colonialism and imperialism, the concept shifts focus from development or cultural differences to geopolitical power relations and global inequalities of the North-South (Fanon, 1961). Early sociologists categorized societies as "advanced" or "primitive," often associating the latter with colonized regions, while thinkers like Antonio Gramsci and Raúl Prebisch highlighted economic and cultural marginalization. The core-periphery model, post-colonial theories, and cultural resistance movements such as the Zapatista revolt and the World Social Forum further solidified the North-South divide, the struggle for cultural sovereignty and resistance to imperialism and the legacy of colonialism (Dados & Connell, 2012). Today, the Global South represents not just underdevelopment but a site of intellectual production where ongoing struggle against global inequalities challenges the homogenizing forces of globalization.

Themes for Paper Submission

The conference invites submissions that engage with the following thematic areas

- 1. Urban Design in the Global South**
Exploring public space, resilience, and informal economies in marginalized urban areas, focusing on community-led initiatives and alternatives to conventional planning.
- 2. Architectural Design: Cultural Resilience and Innovation**
Examining design that supports cultural identity through vernacular materials, context-responsive architecture, and local narratives.
- 3. Housing and Settlement: Narratives from the Margins**
Addressing community-driven housing solutions under urbanization and inequality, including informal practices and participatory development.
- 4. History, Theory, and Criticism in Architecture**
Critiquing architectural discourse through decolonial theory, overlooked histories, and the re-evaluation of vernacular and colonial legacies.
- 5. Science and Technology in Architecture for Empowerment**
Exploring how sustainable construction, climate-adaptive design, and digital tools serve community needs in the Global South.

*Science and
Technology*



in Architecture
for
Empowerment

ARDC2025-04

Investigation of Airflow Movement towards Healthy Homes Requirement in The Post Pandemic Era

Inggit Musdinar Sayekti Sihing Yang Mawantu^{1,2}, Erni Setyowati¹, Eddy Prianto¹

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ABSTRACT

The Covid-19 pandemic has brought lessons, especially in terms of preparedness for a future pandemic. Hospitals are overflowing with infected patients. At the peak of the Covid-19 pandemic, homes became self-isolation facilities due to inadequate healthcare facilities. Therefore, it is crucial to conduct research to investigate and prepare homes that lack ventilation. This study investigated air movement through windows and their configuration. The investigation focused on air movement in space to reduce transmission rates and better prepare homes for future pandemics. This study used quantitative methods with statistical analysis of measurement results from several sample houses located in two urban villages in Jakarta. The study was conducted in small to medium-sized landed houses. The aim was to identify patterns of relationships between climatological elements and their influence on air movement in a room through windows.

Keywords: Ventilation, Windows Configuration, Airflow