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Cultural Identity and Contemporary Architectural Design: A **Comparative Analysis of Local and Global Approaches**

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الهوية الثقافية والتصميم المعماري المعاصر: تحليل مقارن للمناهج المحلية والعالمية

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This study investigates how cultural identity shapes contemporary architectural design through a comparative analysis of local and global approaches. Drawing on theories of critical regionalism, vernacular architecture, and globalization studies, the research examines selected case studies to evaluate form, materiality, climate responsiveness, symbolism, and socio-economic impact. Findings indicate that culturally grounded designs, those engaging material traditions, tectonic expression, and participatory design, result in more resilient, legible, and socially embedded built environments. In contrast, globally homogenized architectural models offer short-term economic or branding benefits but risk diminishing local cultural integrity. The study concludes with design strategies and policy recommendations aimed at integrating cultural identity within contemporary architectural practice to promote sustainable, context-sensitive, and culturally meaningful environments.

Keywords: Cultural Identity, Critical Regionalism, Vernacular, Globalization, Glocalization, Place Lessness, Case Study.

الملخص

تلعب الهوية الثقافية دورًا تكوينيًا في التفكير المعماري ونتائج البناء. تقدم هذه الورقة تحليلًا مقارنًا للممارسات المعمارية بعب الهوية اللقاهية دورا لحويليا في اللعجر المعماري ولنائج البناء. لعدم هذه الورقة تحليلا مقارنا للممارسات المعمارية "المحلية" و"العالمية" لفهم كيفية تداول الهوية في التصميم المعاصر. بناءً على أطر تشمل الإقليمية النقدية، ونظرية اللهجة العامية، ودراسات العولمة، يستخدم البحث منهج دراسة الحالة المقارنة - بفحص المشاريع والأنماط التمثيلية - لتحليل التعبير الشكلي، والأهمية المادية، والتكيف مع المناخ، والمحتوى الرمزي، والأثر الاجتماعي والاقتصادي. تُظهر النتائج أن التصاميم التي تشرك الهوية الثقافية تلقائيًا (من خلال المواد، والبنية التحتية، والبرامج، والعمليات التشاركية) تُتتج بيئات أكثر مرونة ووضوحًا وترابطًا اجتماعيًا. في المقابل، يمكن للنماذج المتجانسة عالميًا أن تُحقق فوائد اقتصادية أو منافع تتعلق بالعلامات التجارية على المدى القصير، ولكنها تُخاطر بتآكل رأس المال الثقافي المحلي. تُختتم الورقة باستراتيجيات تصميم وتوصيات سياساتي لدمج الهوية الثقافية في الممارسة المعاصرة.

الكلمات المفتاحية: الهوية الثقافية، الإقليمية النقدية، اللغة العامية، العولمة، العولمة المحلية، انعدام المكان، در اسة حالة.

Introduction

Contemporary architecture stands at a complex intersection where global and local influences continuously interact, overlap, and sometimes conflict. The rapid acceleration of globalization has profoundly reshaped the architectural landscape, introducing new technologies, materials, and communication networks that allow ideas to circulate at unprecedented speeds. This global interconnectedness has fostered an architectural language that transcends national borders, one that emphasizes innovation, iconic form, and visual spectacle.

Buildings are no longer designed solely as shelters or functional structures; they have become instruments of cultural branding and economic symbolism, the rise of the so-called "starchitect" has further amplified this trend, creating a phenomenon where individual designers attain celebrity status and their signature styles become internationally recognizable commodities. As cities compete for global visibility, iconic buildings are often commissioned to attract tourism, investment, and prestige. These gestures, while ambitious, can lead to an increasing homogenization of architectural form, where buildings in distant cities appear strikingly similar despite vastly different cultural and environmental contexts.

Yet, beneath this surface of uniformity, a countercurrent has been steadily gaining strength—one that reasserts the value of local identity, community memory, and cultural continuity. Architects, scholars, and planners have begun to reexamine the essence of place and its role in shaping authentic design responses. This movement is driven by growing awareness that architecture is not merely a technical exercise or an economic asset but also a cultural language that encodes collective experience. In many regions, this awareness has coincided with broader societal debates on sustainability, postcolonial identity, and social equity. The ecological crisis has exposed the shortcomings of resource-intensive, globally standardized designs that ignore climate responsiveness and local craftsmanship. Meanwhile, communities that once accepted imported modernist models are now questioning their cultural relevance, seeking instead to reclaim indigenous building knowledge and traditional aesthetics. This return to locality is not a nostalgic regression but a progressive reimagining of how architecture can serve as a bridge between heritage and modernity.

Cultural identity, in this sense, is not a static or decorative attribute, it is a living framework that informs how people inhabit, perceive, and relate to space. It encompasses the materials chosen, the techniques employed, the patterns of social interaction, and even the symbolism embedded in architectural form. A wall, a courtyard, or a roof can each embody values, beliefs, and rituals unique to a community. By acknowledging these layers of meaning, architects can design buildings that resonate emotionally and culturally with their users. This tension between globalized aesthetics and localized authenticity defines much of contemporary architectural discourse today. The challenge lies in negotiating between the universal aspirations of modern technology and the particular needs of place-based identity. When architecture succeeds in reconciling these forces, it becomes more than a visual object, it becomes a vessel of shared memory and a testament to the resilience of culture in an interconnected world.

Consequently, contemporary architects are increasingly asked to position themselves ethically within this dynamic field. They must decide whether to align with the global market's demands for novelty and branding or to pursue a deeper engagement with the lived realities of specific communities. Both paths offer opportunities and risks: global forms can enable technological advancement and symbolic power, while local approaches can ensure relevance, sustainability, and belonging.

Despite extensive discourse on globalization, regionalism, and cultural identity, limited comparative research systematically contrasts local and global architectural paradigms using a unified analytical framework. This study addresses this gap through a structured comparative analysis of cultural expression in contemporary architecture."

Concepts and Definitions

- Cultural identity (in architecture). A socially constructed ensemble of shared histories, symbols, spatial practices, and material traditions that give places meaning and legibility. In design terms, cultural identity operates across scale and register, from typology and spatial sequencing to material palettes, ornament, programmatic uses, and embedded public rituals, and is best analyzed as an active process of negotiation rather than a fixed stylistic inventory (Rapoport, 1969; Frampton, 1983).
- Local / Vernacular architecture. Treated here as a single conceptual field: building practices
 and contemporary designs that intentionally derive form, construction logic, and environmental
 strategy from region-specific resources, climatic logics, craft techniques, and communal use
 patterns. Vernacular emphasizes incremental, craft-based evolution; local includes
 contemporary reinterpretations that deliberately reference those vernacular logics (Oliver,
 1997; Rapoport, 1969).
- Global architecture. Projects and practices that circulate within transnational design discourses
 and markets, frequently characterized by advanced technologies, specialist fabrication, iconic
 formal strategies, and aesthetic languages that travel across contexts. Global architecture often
 privileges legibility within international media and branding circuits over site-specific cultural
 coding (King, 2004; Plaza, 2006).

- Critical regionalism. A programmatic stance (Frampton; Tzonis & Lefaivre) advocating synthesis: retain modernist gains (structural clarity, tectonic honesty) while resisting homogenizing tendencies by attending to topography, climate, material tactility, and culturally inflected spatiality. Not a stylistic revival but a set of design sensibilities for rooting modern architecture in place (Frampton, 1983; Tzonis & Lefaivre, 1981).
- Glocalization. The simultaneous co-production of the global and the local: design processes or
 projects that combine international techniques, resources, or programs with locally meaningful
 references, producing hybrid outcomes that negotiate universality and particularity (Robertson,
 1995).
- Placelessness. Relph's critique of the homogenizing effects of modern development and globalized design: the condition in which places lose distinguishing cultural or geographical identity due to standardized built forms, generic planning models, or branded urban redevelopment (Relph, 1976).

Background and Literature Review

Scholarship on cultural identity in architecture has evolved across several theoretical trajectories. Early work by Amos Rapoport emphasized the role of cultural norms and social behavior in shaping spatial organization, establishing a foundational link between cultural practices and built form. Kenneth Frampton later articulated the concept of critical regionalism, proposing an architectural approach rooted in local climate, topography, and tactile materiality as a counterforce to the homogenizing effects of international modernism. Juhani Pallasmaa further contributed by highlighting the multisensory dimensions of architecture and critiquing the dominance of vision in contemporary design.

Globalization theorists such as Robertson (1995) and geographers like Relph (1976) have examined the tensions produced by cultural convergence and the emergence of placeless environments. The "Bilbao Effect," frequently cited in urban studies, illustrates how iconic global architecture can reshape economic landscapes while raising concerns regarding authenticity and community benefit.

In parallel, research on vernacular architecture, most notably by Paul Oliver and Rapoport, demonstrates how traditional building systems embed climatic intelligence, local craftsmanship, and cultural memory. Contemporary studies increasingly seek to translate these vernacular principles into modern architectural frameworks, emphasizing sustainability, cultural continuity, and contextual relevance.

Research Questions and Objectives

This paper addresses the following questions:

- 1. How does cultural identity manifest in contemporary architectural design across local and global paradigms?
- 2. What advantages and drawbacks accompany locally rooted versus globally oriented architectural strategies in terms of environmental performance, social meaning, and economic impact?
- 3. What practical design strategies can architects use to integrate cultural identity into contemporary projects while responding to global conditions?

Objectives:

- To synthesize theoretical frameworks linking cultural identity to contemporary design.
- To analyze comparative case studies representing local, global, and hybrid architectural trends.
- To formulate practical recommendations for architects, planners, and policymakers seeking culturally grounded design solutions.

Methodology

The study adopts a qualitative comparative research method combining literature review, typological examination, and conceptual analysis of selected architectural case studies. Representative projects were chosen based on their relevance to global, local, and hybrid design paradigms. Each case was evaluated through five analytical dimensions: formal organization, materiality and construction, climate responsiveness, symbolic expression, and socio-economic impact.

Data were collected from secondary academic sources, project documentation, and visual architectural analysis. Due to the absence of fieldwork, interpretations rely primarily on established literature and documented performance indicators. A comparative analytical matrix was employed to identify patterns and distinctions among the case studies.

Theoretical Framework: Critical Regionalism and Identity

Critical regionalism serves as the guiding theoretical lens for this study. Positioned between universal modernism and nostalgic revivalism, it advocates designs that remain technologically and formally contemporary while responding to local topographies, climates, crafts, and cultural practices. Rather than promoting stylistic imitation, critical regionalism emphasizes tactile materiality, multisensory experience, and spatial strategies that strengthen a sense of place.

Vernacular Traditions: Materiality, Climate Response, and Cultural Memory

Vernacular architecture offers valuable insights into the intersection between cultural identity, environmental adaptation, and material logic. Traditional Mediterranean and Islamic courtyard houses, for example, reflect climatic intelligence through their controlled microclimates, privacy gradients, and social sequencing. Windcatchers (badgir) in Iran demonstrate sophisticated passive ventilation strategies, while adobe and stone construction methods illustrate how thermal mass and local materials shape both performance and cultural expression.

These systems convey accumulated knowledge and communal identity, providing models for contemporary reinterpretation when adapted thoughtfully rather than reproduced superficially.

Global Architecture: Homogenization, Spectacle, and the 'Bilbao Effect'

Global architecture is often associated with technological innovation, iconic form-making, and transnational aesthetic values. The Guggenheim Museum Bilbao by Frank Gehry exemplifies this paradigm, demonstrating how signature architecture can transform urban identity and stimulate tourism-driven economic growth. While such projects can generate visibility and symbolic capital, they risk privileging spectacle over context, relying heavily on public subsidies, and offering limited cultural integration with local communities.

Glocal Synthesis: Examples of Negotiated Identity (Louvre Abu Dhabi)

Hybrid or "glocal" projects attempt to blend global techniques with locally resonant spatial or symbolic cues. Jean Nouvel's Louvre Abu Dhabi stands as a prominent example, employing advanced engineering to reinterpret regional shading traditions through a layered dome that produces a "rain of light." The project demonstrates how contemporary technologies can be deployed to evoke cultural imagery, although its long-term cultural integration depends on sustained engagement with local narratives and community practices.

Comparative Analysis: Form, Materiality, Climate Response, Symbolism, and Impact

- Form & Typology: Local architectures often evolve from functional needs (courtyard, narrow streets), adapting over time; global projects frequently prioritize iconic form and spectacle.
- Materiality & Construction: Vernacular projects emphasize locally available materials and crafts, supporting local economies and sustainability; global projects often employ imported high-tech materials and specialist fabrication.
- Climate Response: Traditional forms frequently encode passive climatic strategies (courtyards, thick walls, cross-ventilation). Global projects may include high-tech environmental systems, which can be efficient but less resilient if they fail.
- Symbolism & Social Meaning: Local architecture communicates social codes, rituals, and ownership. Global icons can generate civic pride and global recognition but may lack integration with lived cultural practices.
- Socio-economic Impact: Iconic global buildings can attract tourism and investment, but benefits may be uneven. Locally rooted projects often support incremental community benefit

Socio-Political Drivers: Patronage, Tourism, and Nation Branding

Political agendas, funding models, and tourism strategies critically shape architectural outcomes. Governments and private patrons may pursue iconic architecture as a signaling device for modernization or nation branding. Conversely, grassroots or community-driven projects may prioritize cultural continuity and everyday functionality.

Design Strategies for Integrating Cultural Identity

Designers can pursue several strategies to integrate cultural identity meaningfully:

- Translational Design: Abstract vernacular principles (e.g., climatic logics, spatial sequencing) and reinterpret them using contemporary materials and technologies.
- Participatory Processes: Engage local communities, artisans, and stakeholders in co-design to secure cultural legitimacy and social use.
- Material and Craft Revitalization: Use local materials and revive craft economies through conscious procurement and detailing.
- Hybrid Environmental Systems: Combine passive vernacular strategies with modern mechanical systems for redundancy and resilience.
- Programmatic Layering: Incorporate spaces for traditional cultural activities alongside globalized functions (museums, offices) to maintain cultural practices.
- Regulatory and Policy Support: Zoning, heritage protection, and procurement policies can encourage culturally rooted design outcomes.

Recommendations

For architects and policymakers:

- Adopt an analytical framework that evaluates designs for cultural responsiveness as well as technical performance.
- Prioritize early-stage community engagement and support local crafts/capacities.
- Avoid tokenistic ornamentation; favor tectonic and programmatic integration of cultural forms.
- Evaluate iconic projects for long-term cultural and economic sustainability, not just short-term visibility.

For future research:

- Comparative fieldwork across multiple cultural contexts to evaluate long-term outcomes of glocal design strategies.
- Quantitative studies on the socio-economic distribution of benefits from iconic projects.
- Research into procurement models that incentivize local materials and labor.

Conclusion

This study demonstrates that cultural identity remains a vital dimension of contemporary architectural practice. While globalized architectural trends offer technological and economic advantages, designs grounded in local materials, climates, and cultural practices exhibit greater resilience, contextual relevance, and social coherence. The comparative analysis confirms that meaningful integration of cultural identity fosters architectural diversity in an increasingly globalized environment. Future research should explore user perception and post-occupancy evaluations to assess the long-term effectiveness of culturally grounded design strategies.

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