

## **Analysis of Importance of Culture in Distributed Design Based on the Case Study at the University of Strathclyde**

**Authors :** Zixuan Yang

**Abstract :** This paper presents an analysis of the necessary consideration culture in distributed design through a thorough literature review and case study. The literature review has identified that the need for understanding cultural differences in product design and user evaluations is highlighted by analyzing cross-cultural influences; culture plays a significant role in distributed work, particularly in establishing team cohesion, trust, and credibility early in the project. By applying approaches of Geert Hofstede's dimensions and Fukuyama's trust analysis, a case study of a global design project, i.e., multicultural distributed teamwork solving the problem in terms of reducing the risk of deep vein thrombosis, showcases cultural dynamics, emphasizing trust-building and decision-making. The lessons learned emphasized the importance of cultural awareness, adaptability, and the utilization of scientific theories to enable effective cross-cultural collaborations in global design, providing valuable insights into navigating cultural diversity within design practices.

**Keywords :** culture, distributed design, global design, Geert Hofstede's dimensions, Fukuyama's trust analysis

**Conference Title :** ICIDPDD 2025 : International Conference on Industrial Design, Product Design and Development

**Conference Location :** Cape Town, South Africa

**Conference Dates :** November 04-05, 2025