

# **Logistics Performance and National Culture**

**Deepak P. Kesavan**

Industrial and Manufacturing Engineering Dept., College of Engineering,  
California Polytechnic State University,  
San Luis Obispo CA 93407, USA  
[dkesavan@calpoly.edu](mailto:dkesavan@calpoly.edu)

**Ahmed M. Deif**

Industrial Technology and Packaging, Orfalea College of Business,  
California Polytechnic State University,  
San Luis Obispo CA 93407, USA  
Corresponding author: [adeif@calpoly.edu](mailto:adeif@calpoly.edu)

## **Abstract:**

This paper investigates the relationship between national culture and logistics performance of different countries. We use the logistics performance index (LPI) data to capture the logistics performance of different countries as well as the Hofstede national culture framework to capture the different culture dimensions' data of the same countries. We tested the statistical relation and significance between the different culture dimension and LPI and proposed various hypothesis that describe how the logistical performance of countries is related and affected by these dimensions. The managerial impact of our findings suggests that logistics strategists need to consider deeper knowledge of the regional national culture when assessing investments locations. Also acknowledging some required behavioral and structural adjustment efforts in some locations to improve logistical performance is another outcome of this knowledge. These managerial impacts also include global supplier selection and assessment decisions. The rising importance of logistics contribution in today's supply chain management needs to be further contextualized with local national culture

**Keywords:** Logistics; national culture; performance

**Deepak P. Kesavan** is a graduate student of the industrial and manufacturing engineering department at California Polytechnic State University.

**Dr. Ahmed Deif** is an associate professor of operation and process improvement at the Industrial Technology dept. at California Polytechnic State University (Cal Poly). Before joining Cal Poly, Dr. Deif was an assistant professor at different universities in Canada and Egypt. Dr. Deif received his Ph.D. and M.Sc. in Industrial and Manufacturing Systems Engineering from the University of Windsor, Canada. Dr. Deif received his B.Sc. from The American University in Cairo in Mechanical Engineering. His current research interests are in optimal manufacturing planning and control, dynamic capacity management, supply chain innovation and lean and green manufacturing/service systems. He has more than 65 publications in books, international journals and refereed conferences some of which have won best paper awards. Dr. Deif has a diverse portfolio in his industrial experience ranging from automotive

industry where he worked at the R&D center at Chrysler Canada to steel industry to electronic industry and finally assembly industry at various engineering and consultancy capacities. As a lean and six sigma certified expert, Dr. Deif helped various industries in improving their production performance and conducted various training sessions across the globe over the last 20 years. Dr. Deif is a member of SME, IIE, IEOM and POMS.