## RESOURCE ALLOCATION PATTERNS IN A MULTI-PROJECT PORTFOLIO OF ENGINEERING PROJECTS

ISSN: 1544-8037

Vishwanath G Hegde, California State University, East Bay, Hayward, CA, USA Zinovy Radovilsky, California State University, East Bay, Hayward, CA, USA Edward Nakayama, California State University, East Bay, Hayward, CA, USA

dx.doi.org/10.18374/JIBE-14-3.14

## **ABSTRACT**

Resource distribution profile is an essential component of resource planning in project portfolios. Using historic resource loading data in a multi-project setting, we show that resource distribution patterns can be captured by parametric regression models, which can forecast resource distribution during project lifetime using project due date and other attributes. Forecast based on historical data can improve the accuracy of resource plans in project portfolios.

Keywords: resource, portfolio, distribution