

Parametric regression model for project scheduling

ARTICLE | Scheduling | December 1991

Project Management Journal

Orczyk, Joseph J. | Chang, Luh M.

How to cite this article:

Orczyk, J. J. & Chang, L. M. (1991). Parametric regression model for project scheduling. *Project Management Journal*, 22(4), 41–48.

Reprints and Permissions 

Many parametric cost estimating models have been developed over the past two decades. However, there have been only a handful of multiple parametric scheduling methods that have been published. Research was undertaken to develop a parametric schedule model that would incorporate the variables, such as weather conditions, of scheduling in a project. A literature search and an interview of contractors helped to form a questionnaire that was used to gather information on parameters and milestones information from project managers of completed construction projects. The focus of the research was on one-to-four story office buildings. Based on the major milestones that were extrapolated from the research and the parameters with the most significant impact on the construction schedule, a regression model was developed. Regression analysis was successful in analyzing this model.



Log in or join PMI to gain access

LOGIN

or

JOIN

Related Content

ARTICLE | Scheduling | 1 February 2020

PM Network

Banishing Bottlenecks

By Ingram, Bruce | Bottlenecks can have punishing consequences on projects—and their teams. Whether the source of the logjam is a person, a process or a resourcing backlog, teams can get stuck in project limbo when...

ARTICLE | Scheduling, Energy & Utilities | 1 December 2019

PM Network

Power Play

By Fister Gale, Sarah | India's skyrocketing growth is only matched by its surging demand for energy—expected to roughly double over the next two decades. With India on pace to consume more than 10 percent of the global...

ARTICLE | Quality Management, Scheduling | 1 August 2019

PM Network

Going to Extremes

By Fister Gale, Sarah | Blistering desert heat. Arctic chill. Middle-of-nowhere sites. When projects happen in extreme environments, teams face a test of professional skill—and personal will. Embracing a climate of...

ARTICLE | Scheduling, PMO, Program Management | 1 June 2019

Project Management Journal

A Study of the Critical Chain Project Management Method Applied to a Multiproject System

By Cooper Ordoñez, Robert Eduardo | Vanhoucke, Mario | Coelho, Jose | Anholon, Rosley | Novaski, Olívio | In 1997, Eliyahu Goldratt proposed a method called critical chain project management (CCPM) to minimize the inefficiencies identified in traditional project management. The project management...

Systemic View to Understanding Design Change Causation and Exploitation of Communications and Knowledge

By Yap, Jeffrey Boon Hui | Skitmore, Martin | Gray, Jason | Shavarebi, Kamran | Frequent changes pervasively undermine project schedule performance. Despite voluminous research into project delays, however, the persistence of the problem demands that a systemic approach be...



© 2020 Project Management Institute, Inc. | 14 Campus Blvd, Newtown Square, PA 19073-3299 USA



Search



What are you looking for?

