Software Process Improvement in Small and Medium Software Organisations of India

International Journal of Computer Applications
© 2010 by IJCA Journal

Number 12 - Article 7

Year of Publication: 2010

Authors:

M.P. Thapliyal
Pratibha Dwivedi

Abstract

The challenge for software development enterprises is to find a path to apply Software Process Improvement (SPI) technologies to realize their company’s improvement goals. The most pressing requirements for improvement paradigms are that these SPI technologies are not only effective but also realize tangible results quickly, which can be implemented incrementally. This paper focuses on the key issues in Software Process Improvement paradigm, in comparison to the current process in India to those of the standard models used internationally. This research also suggests a software process practices model for Indian small and medium software companies that require collaboration and strengthening to transform their current perspective into inseparable global IT scenario. This paper also gives a quantitative study and is based on questionnaires and interviews of Indian small and medium software organizations.
Reference

- Minoo Shinde and Sajjan G. Shiva “CMMI Framework in Small Business Environment – A Case Study”
- P. Jalote, CMM in Practice: Processes for Executing Software Projects at Infosys, Addison Wesley, 1999 (SEI Series on Software Engineering)
- Jianguo Li, Jinghui Li, and Hongbo Li Research on Software Process Improvement Model Based on CMM World Academy of Science, Engineering and Technology 39 2008, pp 368-371

Index Terms

Computer Science Software Engineering

Key words

Software Process Improvement software organizations

IT