

Experience Base for Software Engineering Research

Background:

Software development is a people- and knowledge-intensive activity; it is a rapidly changing field, and although it is slowly maturing, many activities are still ad hoc and depend upon personal experiences. In order to cope with such restrictions as firm deadlines and shrinking budgets, software-developing organizations need assistance in setting up and running increasingly critical projects. In order to reach their goals, software development teams need to understand and choose the right models and techniques to support their projects.

Objective:

The general objective of the CSE eBASE is to collect and enable access to a diversity of empirical data, process information, models, process knowledge and experience (hereafter collectively referred to as experience) arising from software development practice in a highly accessible format, to provide validated guidelines for selecting techniques and models, recommend areas for research, and support software engineering education, and to transform software engineering from a fad-based practice to an engineering-based discipline in which development processes are selected based on what is known about their effects on products, through synthesis, derivation, organization, and dissemination of empirical knowledge on software development and evolution phenomenology. It is available primarily to members of the CSE and secondarily to the general public.

Content:

The content of the eBASE was initially based on experience stemming from previous and current work conducted by CSE, for example COTS based and Defect reduction techniques. In the future we expect collaborators of CSE (students, researchers, educators, and practitioners) to collaborate in various groups and share experience within and outside those groups.

Project Type:

Multi-year USC-CSE research project

Target Users:

Collaborators of CSE (students, researchers, educators, and practitioners)

Developers:

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