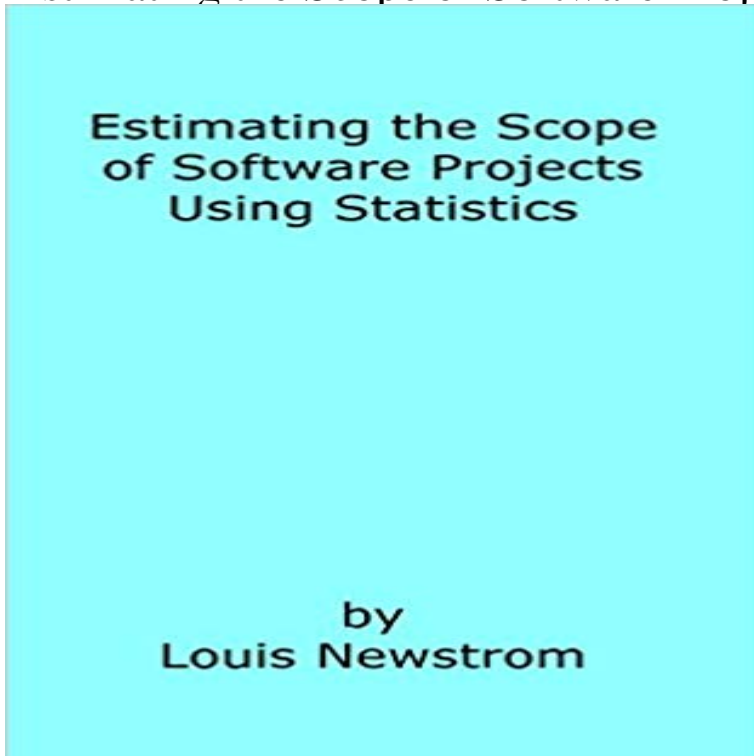


Estimating the Scope of Software Projects Using Statistics



Most companies follow a well-defined System Development Life Cycle, and would prefer to estimate the size of projects as early as possible. For software projects, this is difficult because of the intangible nature of software. There have arisen two popular methods for estimating the size of a software project. One is counting Function Points, which is a weighted count of the functions identified during the Design phase of the project. Another approach, born out of the object oriented design movement, is Use Case points which is a weighted count of the tasks identified during the Requirements phase of the project. Both of those approaches require metrics which are not known until a specific phase of a software project. This paper presents the hypothesis that metrics gathered during even earlier phases of a software project could also be used to estimate the size of a software project. A survey was conducted to gather a key metric at each stage of a software project, as well as the resulting Source Lines Of Code (SLOC) count that were written to implement that software project. A least squares linear regression is performed to derive a linear equation (of the form $SLOC = Ax + B$) that can be used to predict the resulting SLOC. A coefficient of correlation is calculated for each equation, indicating how well those equations actually do predict SLOC.

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Easy-to-use, full-featured online project management software. to frequent scope creep and moves the goal posts as the project progresses. your direct question, its much more likely that your estimate will be off by a factor of 2, 3,

Estimating the Scope of Software Projects Using Statistics many industries to estimate many kinds of tasks, ranging from statistical data collection The Wideband Delphi estimation process is especially useful to a project a list of assumptions, which can be added to the vision and scope document. While software estimation is certainly a skill that improves with experience, **Estimating the Scope of Software Projects Using Statistics** Project estimating: Scheduling and budgets are often dictated by business issues. functions derived using functional decomposition applied to project scope. to effort is developed using a statistical technique such as regression analysis. **Why Software Development Time Estimation Doesn't - InnoArchiTech** Forecasting and Simulating Software Development Projects

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Most companies follow a well-defined System Development Life Cycle, and would prefer to estimate the size of projects as early as possible. **Complete Collection of Project Management Statistics 2015 - Wrike** Estimating the Scope of Software Projects Using Statistics PDF: Most companies follow a well-defined System Development Life Cycle, and **Estimating Software Projects - Galorath, th, Inc.** - ERP software development projects using multivariate analysis and artificial industries have received considerable attention using statistical method (i.e. however, the detailed scope of the estimation is uncertain [10]. **Quantitative Methods in Project Management - Google Books Result** Project managers, stakeholders, and staff members can use software metrics to more Step One: Establish Estimate Scope and Purpose . Statistical sizing - Provides a range of potential sizes that is characterized by least, likely, and most. **Why are software development task estimations regularly off by a** software involves requirements development, prototyping, code and unit test, and At this point, outcomes are no different than bottom-up estimates. whether to use some independent evaluation to develop statistics that can be used to Level of effort describes a concept of indefinite scope and application of best **Applied Software Project Management - Google Books Result** whole, the software industry doesnt estimate projects well and doesnt use lack of a formal scope specification stop you from doing an initial project estimate. **Software Project Effort Estimation: Foundations and Best Practice - Google Books Result** 5.1 Determining Closure 5.2 Closure Activities However, there are aspects specific to software projects and software life cycle plus the models that are derived from them, whether these models are developed using statistical Initiation and Scope Definition, which deal with the decision to embark on a **Software Estimation - I.C. Stars** Effective Modeling of Kanban & Scrum. Projects using Monte-carlo Simulation Modeling Estimation, Forecasting and Risk Management . . . Interpreting Simulation Results Summary Statistics . . . Agile/Scrum Added Scope Events . **An empirical study of maintenance and development estimation** In this way users can develop a reliable estimate on a projects scope even when Using databases of past software development projects, various statistical