

# Value-Based Software Engineering (VBSE)

CS577a

Nupul Kukreja,

Barry Boehm

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# Valuebased Software Engineering

**Shari Lawrence Pfleeger, Joanne M.  
Atlee**



## Valuebased Software Engineering:

**Value-Based Software Engineering** Stefan Biffel, Aybuke Aurum, Barry Boehm, Hakan Erdogmus, Paul Grünbacher, 2006-02-23 The IT community has always struggled with questions concerning the value of an organization's investment in software and hardware. It is the goal of value based software engineering (VBSE) to develop models and measures of value which are of use for managers, developers and users as they make tradeoff decisions between, for example, quality and cost or functionality and schedule. Such decisions must be economically feasible and comprehensible to the stakeholders with differing value perspectives. VBSE has its roots in work on software engineering economics pioneered by Barry Boehm in the early 1980s. However, the emergence of a wider scope that defines VBSE is more recent. VBSE extends the merely technical ISO software engineering definition with elements not only from economics but also from cognitive science, finance, management science, behavioral sciences and decision sciences, giving rise to a truly multi-disciplinary framework. Biffel and his co-editors invited leading researchers and structured their contributions into three parts following an introduction into the area by Boehm himself. They first detail the foundations of VBSE, followed by a presentation of state-of-the-art methods and techniques. The third part demonstrates the benefits of VBSE through concrete examples and case studies. This book deviates from the more anecdotal style of many management-oriented software engineering books and so appeals particularly to all readers who are interested in solid foundations for high-level aspects of software engineering decision making, i.e. to product or project managers driven by economics and to software engineering researchers and students.

**Software Applications: Concepts, Methodologies, Tools, and Applications** Tiako, Pierre F., 2009-03-31 Includes articles in topic areas such as autonomic computing, operating system architectures and open source software technologies and applications.

Software Engineering Richard W. Selby, 2007-06-04 This is the most authoritative archive of Barry Boehm's contributions to software engineering. Featuring 42 reprinted articles along with an introduction and chapter summaries to provide context, it serves as a how-to reference manual for software engineering best practices. It provides convenient access to Boehm's landmark work on product development and management processes. The book concludes with an insightful look to the future by Dr. Boehm.

*Trustworthy Software Development Processes* Qing Wang, Vahid Garousi, Raymond Madachy, Dietmar Pfahl, 2009-05-08 This volume contains papers presented at the International Conference on Software Process (ICSP 2009) held in Vancouver, Canada during May 16-17, 2009. ICSP 2009 was the third conference of the ICSP series, continuing the software process workshops from 25 years ago. The theme of ICSP 2009 was Processes to Develop Trustworthy Software. Software development takes place in a dynamic context of frequently changing technologies and limited resources. Teams worldwide are under increasing pressure to deliver trustworthy software products more quickly and with higher levels of quality. At the same time, global competition is forcing software development organizations to cut costs by rationalizing processes, outsourcing part or all of their activities, re-using existing software in new

or modified applications and evolving existing systems to meet new needs while still minimizing the risk of projects failing to deliver To address these difficulties new or modified processes are emerging including lean and agile methods plan based product line development and increased integration with systems engineering processes Papers present research and real world experience in many areas of software and systems processes impacting trustworthy software including new software development approaches software quality integrating software and business processes CMMI and other process improvement initiatives simulation and modeling of software processes techniques for software process representation and analysis and process tools and metrics

*Effect of Value Based Software Engineering on Development Projects* Raymond Paul,1996 Abstract Previous models of software development projects have failed to represent people productivity accurately In this paper we present a model characterized by realistic productivity curves and flexibility in choosing resource factors in a software engineering project A two mode mathematical model similar to Putnam Norden model is presented The proposed model enhances the capability of engineering management users to make corrective actions when appropriate It is extremely beneficial to detect problems and provide corrective actions since they are in many cases crucial to the successful project software engineering hiring and or acquisition management planning to use the software product

*Proceedings, ASE*,2005

**Software Engineering** Shari Lawrence Pfleeger,Joanne M. Atlee,2006 This introduction to software engineering and practice addresses both procedural and object oriented development Is thoroughly updated to reflect significant changes in software engineering including modeling and agile methods Emphasizes essential role of modeling design in software engineering Applies concepts consistently to two common examples a typical information system and a real time system Combines theory with real practical applications by providing an abundance of case studies and examples from the current literature A useful reference for software engineers

*Software Engineering* Hans van Vliet,2000-10-10 This work aims to provide the reader with sound engineering principles whilst embracing relevant industry practices and technologies such as object orientation and requirements engineering It includes a chapter on software architectures covering software design patterns

**15th International Conference on Software Engineering, May 17-21, 1993, Baltimore, Maryland**,1993

**Formal Methods and Software Engineering**,2003

*Software Engineering: A Practitioner's Approach* Roger S. Pressman,2010 For over 20 years this has been the best selling guide to software engineering for students and industry professionals alike This seventh edition features a new part four on web engineering which presents a complete engineering approach for the analysis design and testing of web applications

**Software Reuse** Murali Sitaraman,1996 Annotation Papers from the April 1996 conference present insights directions and experience from leading reuse experts around the world with regard to a practice which helps developers harness components of existing software developed through previous projects rather than write new software from scratch Topics include the reuse business components and compositions software architectures domain analysis and models languages and object based computing Intended for researchers

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