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Software for Dependable Systems—National Research Council 2007-09-14 The focus of Software for Dependable Systems is a set of fundamental principles that underlie software system dependability and that suggest a different approach to the development and assessment of dependable software. Unfortunately, it is difficult to assess the dependability of software. The field of software engineering suffers from a pervasive lack of evidence about the incidence and severity of software failures; about the dependability of existing systems, about the efficacy of existing and proposed maintenance methods, about the benefits of certification schemes; and so on. There are many anecdotal reports, which although often useful for indicating areas of concern or highlighting promising avenues of research, do little to establish a sound foundation for making policy decisions regarding dependability. The committee regards claims of extraordinary dependability that are sometimes made on the basis of the most critical of systems as unsubstantiated, and perhaps irresponsible. This difficulty regarding the lack of evidence for system dependability leads to two conclusions: (1) that better evidence is needed, so that approaches aimed at improving the dependability of software can be objectively assessed; and (2) that, for now, the pursuit of dependability in software systems should focus on the construction and evaluation of evidence. The committee also recognized the importance of adopting the practices that are already known and used by the best developers; this report gives a sample of such practices. Some of these (such as systematic configuration management and automated regression testing) are relatively easy to adopt; others (such as constructing hazard analyses and threat models, exploiting formal notations when appropriate, and applying static analysis to code) will require new training for many developers. However valuable, though, these practices are in themselves no silver bullet, and new techniques and methods will be required in order to build future software systems to the level of dependability that will be required.

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Advanced Information Systems Engineering 2003

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Computer Science and Informatics—1994

APSEC 2002: Paul A. Streeter 2002 These 57 papers from the December 2002 conference present new approaches to requirements engineering, formal methods, components, software design and architecture, model checking, education, project management, documentation, and software maintenance. Among the topics are the impact of requirements

ACM Transactions on Software Engineering and Methodology 1998


Computer Security, Dependability, and Assurance—IEEE Computer Society 1999 Annotation The Office of Naval Research and the National Science Foundation established these workshops to determine the state of the art and to set the course for future research in three scientific communities: computer security, fault tolerance, and software assurance. Although these areas may differ in their emphasis, this workshop established a unifying theme to help coordinate research efforts. This book includes a proposed research agenda, which provides a brief distillation of notes from the workshop, as well as 14 articles covering topics such as error recovery in critical infrastructure systems, practical techniques for damage confinement in software, and diversity against accidental and deliberate faults. No subject index. Annotation copyrighted by Book News, Inc., Portland, OR.

Software Engineering: Effective Teaching and Learning Approaches and Practices—Ellis, Heidi J.C. 2008-10-31 Over the past decade, software engineering has developed into a highly respected field. Though computing and software engineering education continue to emerge as a prominent interest area of study, few books specifically focus on software engineering education itself. Software Engineering: Effective Teaching and Learning Approaches and Practices presents the latest developments in software engineering education, drawing contributions from over 20 software engineering educators from around the globe. Encompassing areas such as student assessment and learning, innovative teaching methods, and educational technology, this much-needed book greatly enhances libraries with its unique research content.

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