

Software For Dependable Systems Sufficient Evidence

Software For Dependable Systems Sufficient

Description 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.

Software for Dependable Systems: Sufficient Evidence ...

Software for Dependable Systems: Sufficient Evidence? (Cybersecurity) by National Research Council (Author), Division on Engineering and Physical Sciences (Author), Computer Science and Telecommunications Board (Author), Committee on Certifiably Dependable Software Systems (Author), Lynette I. Millett (Editor), Martyn Thomas (Editor), Daniel Jackson (Editor) & 4 more.

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Critical systems are often subject to certification: a formal assurance that the system has met relevant technical standards designed to ensure it will not unduly endanger the public and can be depended upon to deliver its intended service safely and securely. Today, certification of the dependability of a software-based system usually relies more on assessments of the process used to develop ...

Front Matter | Software for Dependable Systems: Sufficient ...

A software system should be regarded as dependable only if sufficient evidence of its explicitly articulated properties is presented to substantiate the dependability claim. This approach gives considerable leeway to developers to use whatever practices are best suited to the problem at hand.

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Summary | Software for Dependable Systems: Sufficient ...

Software for Dependable Systems: Sufficient Evidence? - Ebook written by National Research Council, Division on Engineering and Physical Sciences, Computer Science and Telecommunications Board, Committee on Certifiably Dependable Software Systems. Read this book using Google Play Books app on your PC, android, iOS devices. Download for offline reading, highlight, bookmark or take notes while ...

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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 ...

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A software system should be regarded as dependable only if sufficient evidence is presented to substantiate the dependability claim. The evidence should take the form of a dependability case that explains why the critical properties hold, and it will involve reasoning about both the code and the environmental assumptions.

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Preface Critical systems are often subject to certification: a formal assurance that the system has met relevant technical standards designed to ensure it will not unduly endanger the public and can be depended

Software for Dependable Systems: Sufficient Evidence ...

Software for Dependable Systems explores how software and the systems that rely on it can be made dependable in a cost-effective manner and how one can obtain assurance that dependability has been achieved. In addressing these questions, the book frames the issue for further work by standards committees and regulators, and challenges the software development industry to restructure its perspective on software quality.

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Software for Dependable Systems:: Sufficient Evidence? by Committee on Certifiably Dependable Software Systems, Comput (2007) Paperback Paperback – January 1, 1709 4.5 out of 5 stars 4 ratings. See all formats and editions Hide other formats and editions. Price New from Used from Paperback "Please retry" \$43.50 .

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In seeking to achieve its purposes the book targets several groups, including individuals responsible

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for establishing and maintaining the dependability of software for their enterprise; software developers, including both commercial software and custom software; and regulators who require enterprises to establish the dependability of their systems. Features: Software for Dependable Systems is the work of the High Confidence Software and Systems Coordinating Group of the National Science and ...

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Software for Dependable Systems stresses the importance of both process and people. But the book goes further and expresses the conviction that software will always be of unknown quality—which is scary for a safety-critical application—unless there's positive proof it is indeed correct.

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