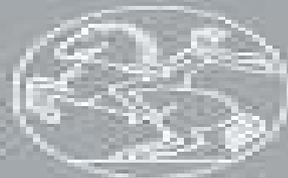


**Dependable Computing
and Fault-Tolerant Systems
Vol 2**

U. Voges (ed.)

**Software Diversity
in Computerized
Control Systems**



Springer-Verlag Wien New York

Software Diversity In Computerized Control Systems

W. J. Quirk



Software Diversity In Computerized Control Systems:

Software Diversity in Computerized Control Systems Udo Voges, 2012-12-06 Software Diversity is one of the fault tolerance means to achieve dependable systems In this volume some experimental systems as well as real life applications of software diversity are presented The history the current state of the art and future perspectives are given Although this technique is used quite successfully in industrial applications further research is necessary to solve some open questions We hope to report on new results and applications in another volume of this series within some years Acknowledgements The idea of the workshop was put forward by the chairpersons of IFIP WG IOA J c Laprie J F Meyer and Y Tohma in January 1986 and the editor of this volume was asked to organize the workshop This volume was edited with the assistance of the editors of the series A Avizienis H Kopetz and J C Laprie who also had the function of reviewers Karlsruhe October 1987 U Voges Editor Table of Contents 1 1 Introduction U Voges 2 Railway Applications 7 ERICSSON Safety System for Railway Control 11 G Hagelin 3 Nuclear Applications 23 Use of Diversity in Experimental Reactor Safety Systems 29 U Voges The PODS Diversity Experiment 51 P G Bishop 4 Flight Applications 85 AIRBUS and ATR System Architecture and Specification 95 P Traverse 5 University Research 105 Tolerating Software Design Faults in a Command and Control System 109 T Anderson P A Barrett D N Halliwell M R Moulding DEDIX 87 A Supervisory System for Design Diversity Experiments at UCLA

Software Diversity in Computerized Control Systems Udo Voges, 1987-12-17 This book deals with the most important aspects of software diversity and its use in computerized control systems including theoretical background experiments and industrial realizations railway flight and nuclear applications Researchers describe their experiments with software diversity and explain their results including benefits and drawbacks Practitioners explain their use of it in real systems why they use this means of fault tolerance and how they incorporate it into their systems In addition to the papers the book contains a rather complete list of publications giving an overview on references about software diversity from its beginning until today Therefore this book is a complete description of the state of the art on the topic of software diversity

Safety of Computer Control Systems Rudolf Lauber, 1980 Safety of Computer Control Systems is a collection of papers from the Proceedings of the IFAC Workshop held in Stuttgart Germany on May 16 18 1979 Industrial Process Control Systems L. Boullart, E. van Ravenzwaaij, J. P. Jansen, 1989 Hardbound With the much publicized industrial disasters which have occurred recently Chernobyl and Piper Alpha the importance of reliability and safety within industry has come to the forefront These Proceedings are divided into three sessions as follows industrial process control systems for safety applications expert systems and diagnostics and reliability procedures and guidelines Papers were presented on the basics of reliability and availability theory aiding techniques for example expert systems and software developments in a variety of areas ranging from mathematics to engineering These Proceedings will be a useful reference source for all those involved in the safety and maintenance of industrial systems Safety of Computer Control Systems 1988 (Safecomp '88) W. D. Ehrenberger, 1988

This volume provides a comprehensive overview of the many aspects and developments of safety related applications of industrial computer systems. The book contains 21 papers covering such topics as the specification and design of safety systems, their testing and licensing, safety related documentation and management techniques and their uses and limitations in industry, with examples in such diverse areas as nuclear power plants, the chemical industry and applications in traffic control.

Fault-tolerant Software Systems Hoang Pham, 1992. Anthology of IEEE journal articles on the subject. Reprinting is tolerable except for the author photos. No index. Annotation copyright Book News Inc Portland Or. *Tenth International Symposium on Software Reliability Engineering* IEEE Computer Society, 1999. The theme of the November 1999 symposium deals with which technologies to take into the new millennium and which ones to leave behind. The 32 papers address software reliability techniques, models, reliability and safety, object oriented testing and modeling, quality testing and early quality prediction. Some of the topics are rare: failure state in a Markov chain model for software reliability, classification tree models of software quality over multiple releases, mutation testing applied to validate specifications based on statecharts, generating test cases from an OO model with an AI planning system and requirements volatility and defect density. No subject index. Annotation copyrighted by Book News Inc Portland OR.

Computer Security, Dependability, and Assurance IEEE Computer Society, National Science Foundation (U.S.), 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.

Safety of Computer Control Systems 1986 (Safecomp '86) Trends in Safe Real Time Computer Systems W. J. Quirk, 1986-10-13. The proceedings of the fifth workshop in this subject continue the trend set by the previous four and discusses some of the current problems involved in the design and production of safe real time computer systems. Topics covered include software quality assurance, software fault tolerance, design for safety and reliability and safety assessment. Every paper details the theoretical and practical problems involved in the development of safe systems and should therefore be of interest to all those involved in systems design.

Distributed Computer Control Systems 1988 M.G. Rodd, Th. d'Epina y Lalive, 1989-04-28. Continuing the forward thinking of previously held distributed computer control systems meetings, this volume discusses both the positive and negative views on trends in OSI based communications, the development of the fieldbus, the importance of the incorporation into basic real time operating systems to be used for distributed systems of concepts such as time stamping and access to global time bases and the influence of artificial intelligence based technologies.

on the distributed computer control world *Handbook of Software Reliability Engineering* Michael R. Lyu,1996 From leading industrial research experts here is an insider's look at today's best practices for software reliability engineering Using this guide software developers designers and project managers high level applications programmers and designers and students will be able to tap into an unparalleled repository of accumulated experience and expertise Proceedings of the Fourth Annual Parallel Processing Symposium Larry H. Canter,1990 **Software Fault Tolerance** Michael R. Lyu,1995-05-09 Software fault tolerance techniques involve error detection exception handling monitoring mechanisms and error recovery This issue of Trends in Software focuses on identification formulation application and evaluation of current software fault tolerance techniques **Microcomputer Application in Process Control** E. Adalı,F. Tunalı,1987 This symposium brings together the research from different disciplines of process control and discusses the problems encountered in the application of automation systems The papers in this volume analyze the results of theoretical research and how far applications have been developed new design methodologies and technologies to give a comprehensive overview of the state of the art of this fast developing science **Architecting Dependable Systems** ,2004 *AIAA Computing in Aerospace ... Conference* , **Predictably Dependable Computing Systems** Brian Randell,1995-06-09 This book provides an overview of the work of two successive ESPRIT Basic Research Projects on Predictably Dependable Computing Systems PDCS as well as their major achievements The purpose of the projects has been to contribute to making the process of designing and constructing dependable computing systems much more predictable and cost effective The book contains a carefully edited selection of papers on all four main topics in PDCS fault prevention fault tolerance fault removal and fault forecasting Problems of real time and distributed systems system structuring qualitative evaluation and software dependability modelling are emphasized The book reports on the latest research on PDCS from a team including many of Europe's leading researchers **Dependable Computing for Critical Applications 4** Flaviu Cristian, Gerard LeLann,Teresa Lunt,1995-03-31 This volume contains the articles presented at the Fourth International FIP Working Conference on Dependable Computing for Critical Applications held in San Diego California on January 4-6 1994 In keeping with the previous three conferences held in August 1989 at Santa Barbara USA in February 1991 at Tucson USA and in September 1992 at Mondello Italy the conference was concerned with an important basic question can we rely on computer systems for critical applications This conference like its predecessors addressed various aspects of dependability a broad term defined as the degree of trust that may justifiably be placed in a system's reliability availability safety security and performance Because of its broad scope a main goal was to contribute to a unified understanding and integration of these concepts The Program Committee selected 21 papers for presentation from a total of 95 submissions at a September meeting in Menlo Park California The resulting program represents a broad spectrum of interests with papers from universities corporations and government agencies in eight countries The selection process was greatly facilitated by the diligent work of

the program committee members for which we are most grateful As a Working Conference the program was designed to promote the exchange of ideas by extensive discussions All paper sessions ended with a 30 minute discussion period on the topics covered by the session In addition three panel sessions have been organized

Proceedings of the 12th Tron Project International Symposium ,1995 Proceedings of the fall 1995 symposium exploring progress in computer and software technologies and applications to computers telecommunications systems and equipment and highlighting new microprocessor technologies Topics include multilingual computing real time software development systems and operating systems the data exchange format for HFDS applying a real time operating system to transmission equipment management and human machine interface Includes an overview of the TRON project No index Annotation copyright by Book News Inc Portland OR

Control Engineering ,1981 Instrumentation and automatic control systems

Decoding **Software Diversity In Computerized Control Systems**: Revealing the Captivating Potential of Verbal Expression

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