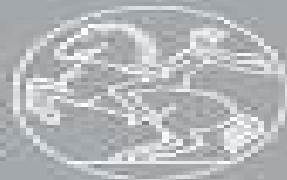


**Dependable Computing
and Fault-Tolerant Systems
Vol 2**

U. Voges (ed.)

**Software Diversity
in Computerized
Control Systems**



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Software Diversity In Computerized Control Systems

Scott C. Dulebohn



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 **Computer Security, Dependability, and Assurance** IEEE Computer

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 Fourth Annual Parallel Processing Symposium Larry H. Canter,1990 **COMPASS** ,1988 *Control Engineering* ,1981 Instrumentation and automatic control systems *New Technologies for Computer Control 2001 (NTCC 2001)* H. B. Verbruggen,C. W. Chan,2002 Topics covered include parallel and distributed computing software architecture and hardware for distributed computer control real time operating systems real time communication architectures **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 [Proceedings of the ... American Control Conference](#) ,1985

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