

TEXTS AND MONOGRAPHS IN COMPUTER SCIENCE  
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# RELIABLE COMPUTER SYSTEMS

Edited by Sanjosh K. Shrivastava

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# Reliable Computer Systems Collected Papers Of The Newcastle Reliability Project

**G. X. Ritter**



## **Reliable Computer Systems Collected Papers Of The Newcastle Reliability Project:**

**Reliable Computer Systems** Santosh K. Shrivastava, 2012-12-06 A research project to investigate the design and construction of reliable computing systems was initiated by B Randell at the University of Newcastle upon Tyne in 1972 In over ten years of research on system reliability a substantial number of papers have been produced by the members of this project These papers have appeared in a variety of journals and conference proceedings and it is hoped that this book will prove to be a convenient reference volume for research workers active in this important area In selecting papers published by past and present members of this project I have used the following criteria a paper is selected if it is concerned with fault tolerance and is not a review paper and was published before 1983 I have used these criteria with only one or two exceptions in order to present a collection of papers with a common theme and at the same time to limit the size of the book to a reasonable length The papers have been grouped into seven chapters The first chapter introduces fundamental concepts of fault tolerance and ends with the earliest Newcastle paper on reliability The project perhaps became well known after the invention of recovery blocks a simple yet effective means of incorporating fault tolerance in software The second chapter contains papers on recovery blocks starting with the paper which first introduced the concept

**Catalogue of Distributed File/Operating Systems** Uwe M. Borghoff, 2012-12-06 In general distributed systems can be classified into Distributed File Systems DFS and Distributed Operating Systems DOS The survey which follows distinguishes between DFS approaches in Chapters 2 3 and DOS approaches in Chapters 4 5 Within DFS and DOS I further distinguish traditional and object oriented approaches A traditional approach is one where processes are the active components in the systems and where the name space is hierarchically organized In a centralized environment UNIX would be a good example of a traditional approach On the other hand an object oriented approach deals with objects in which all information is encapsulated Some systems of importance do not fit into the DFS DOS classification I call these systems closely related and put them into Chapter 6 Chapter 7 contains a table of comparison This table gives a lucid overview summarizing the information provided and allowing for quick access The last chapter is added for the sake of completeness It contains very brief descriptions of other related systems These systems are of minor interest or do not provide transparency at all Sometimes I had to assign a system to this chapter simply for lack of adequate information about it

Computer-Supported Cooperative Work Uwe M. Borghoff, Johann H. Schlichter, 2013-11-09 The terms groupware and CSCW computer supported cooperative work have received significant attention in computer science and related disciplines for quite some time now This book is a revised and extended version of the 2nd edition of the German textbook Rechnergestützte Gruppenarbeit Eine Einführung in verteilte Anwendungen It has two main objectives first to outline the meaning of both terms and second to point out both the numerous opportunities for users of groupware and the risks of applying such systems The book intends to introduce an area of distributed systems namely the computer support of individuals trying to solve a common problem in cooperation with each

other but not necessarily having identical work places or working times Computer supported cooperative work is an interdisciplinary application domain It can be viewed as a synergism between the areas of distributed systems and multimedia communication on the one hand and between those of information science and socio organizational theory on the other hand Thus the book is meant to help students of all these disciplines as well as users and developers of systems which have communication and cooperation within groups as top priorities

*Transputing '91* Peter Welch, Toshiyasu L. Kunii, A. Bakkers, 1991 Transputers constitute a revolutionary category of microprocessors for parallel processing which have become market leaders in 32 bit RISC architectures The wide range of applications has caused a multitude of activities of user groups in all major countries as well as regional activities on four continents For the first time the collaboration of all these user groups has led to the organization of a world conference Transputing 91

*The Evolution of Fault-Tolerant Computing* A. Avizienis, H. Kopetz, J.C. Laprie, 2012-12-06 For the editors of this book as well as for many other researchers in the area of fault tolerant computing Dr William Caswell Carter is one of the key figures in the formation and development of this important field We felt that the IFIP Working Group 10.4 at Baden Austria in June 1986 which coincided with an important step in Bill's career was an appropriate occasion to honor Bill's contributions and achievements by organizing a one day Symposium on the Evolution of Fault Tolerant Computing in the honor of William C Carter The Symposium held on June 30 1986 brought together a group of eminent scientists from all over the world to discuss the evolution the state of the art and the future perspectives of the field of fault tolerant computing Historic developments in academia and industry were presented by individuals who themselves have actively been involved in bringing them about The Symposium proved to be a unique historic event and these Proceedings which contain the final versions of the papers presented at Baden are an authentic reference document

*Proceedings*, 1993 Proceedings of the 4th International Symposium on Software Reliability Engineering held in Denver Colorado in November 1993 Among the topics fault tolerant software software reliability expectations and simulation programming

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*The ... International Conference on Distributed Computing Systems*, 1996

**Proceedings of the 16th International Conference on Distributed Computing Systems**, 1996

*Fehlertoleranzverfahren* Klaus Echtle, 2013-03-07 Dieses Buch beschreibt die grundlegenden Verfahren zur Tolerierung von Fehlern die in Rechensystemen auftreten Besondere Beachtung finden Fehlertoleranz Manahmen für verteilte Systeme da diese eine zunehmende Bedeutung erlangen Die Ansätze zur Vermeidung von Zuverlässigkeitsengpässen durch Fehlertoleranz Instanzen die selbst fehlertolerant sind werden ausführlich diskutiert Die Darstellung ist weniger auf die Beschreibung existierender fehlertoleranter Rechensysteme ausgerichtet als vielmehr auf eine systematische weitgehend implementierungsunabhängige Klassifikation der verschiedenen Schritte zur Fehlertoleranz und ihrer Varianten Es wird ein Überblick gegeben der die Entwurfsalternativen bei der Realisierung von Fehlertoleranz Verfahren aufzeigt und ihre Auswirkungen auf Zuverlässigkeit Leistungsfähigkeit und andere Eigenschaften

eines Rechensystems verdeutlicht *Rechnergestützte Gruppenarbeit* Uwe M. Borghoff, Johann H. Schlichter, 2013-11-27 Groupware und CSCW Computer Supported Cooperative Work sind Dauerbrenner in der internationalen Informatikszene Dieses in der 2. Auflage vollständig bearbeitete und erweiterte Lehrbuch zeigt ihre vielfältigen Nutzungsmöglichkeiten aber auch die Risiken auf Rechnergestützte Gruppenarbeit d. h. Rechnerunterstützung für Gruppen von Personen die gemeinsam an einem Problem arbeiten aber m. glicherweise räumlich und zeitlich verteilt sind ist eine synergetische Anwendung der Gebiete Verteilte Systeme und Multimedia Kommunikation wie auch von Informationswissenschaften Soziologie und Organisationstheorie Angesprochen sind daher Studierende und Forscher dieser Fachrichtungen sowie Anwender und Entwickler von Systemen bei denen Kommunikation und Kooperation einer Gruppe vorrangig sind **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 **Digital Systems Reference Book** Brian Holdsworth, Graham R. Martin, 1993 Designed to provide comprehensive coverage of the field of digital systems in a concise but authoritative form For ease of access the book has been divided into five parts fundamentals devices for digital systems system design and techniques system development and applications **Information Processing** International Federation for Information Processing, 1989 Information Processing 89 G. X. Ritter, 1989 Proceedings Miscellaneous *Journal of Information Science and Engineering*, 1993 Software-Diversität und ihre Modellierung Udo Voges, 2013-03-07 Software Diversität wird als eine Fehlertoleranzmaßnahme dargestellt die Verwendung in Systemen mit hohen Zuverlässigkeitsanforderungen findet Im ersten Teil des Buches werden die wichtigsten Beispiele angegeben bei denen Experimente mit Software Diversität durchgeführt wurden bzw. bei denen Software Diversität eingesetzt wurde Im zweiten Teil werden verschiedene Ansätze zur Modellierung der Software Diversität Fehlermodell und Kostenmodell eingeführt Der Anhang enthält eine z. T. kommentierte Bibliographie mit allen Literaturstellen zur Software Diversität Damit wird das Thema in diesem Buch erstmals umfassend dargestellt und sowohl ein Einstieg in die Problematik als auch eine Grundlage für die Verwendung von Software Diversität in Anwendungsbereichen vermittelt Mit Hilfe der vorgestellten Fehler- und Kostenmodelle kann bei der Projektplanung abgeschätzt werden welcher Nutzen bezogen auf die sich auswirkenden Fehler und welche Kosten bei verschiedenen Realisierungsformen der Software Diversität im Vergleich zu einer nicht diversitären Entwicklung zu erwarten sind Dieses Buch ist das erste deutschsprachige Werk das eine so ausführliche Behandlung des Themas Software Diversität enthält Elektronische Informationsverarbeitung und Kybernetik, 1986 *Bibliographie internationale des recensions de la littérature savante*, 1974 **Bulletin signalétique des télécommunications**, 1986-07 Collected Papers. Volume VI Florentin Smarandache, 2022-01-15 This sixth volume of Collected Papers includes 74 papers comprising 974 pages on theoretic and applied neutrosophics written between 2015-2021 by the author alone or in collaboration with the following

121 co authors from 19 countries Mohamed Abdel Basset Abdel Nasser H Zaied Abdullallah Gamal Amir Abdullah Firoz Ahmad Nadeem Ahmad Ahmad Yusuf Adhami Ahmed Aboelfetouh Ahmed Mostafa Khalil Shariful Alam W Alharbi Ali Hassan Mumtaz Ali Amira S Ashour Asmaa Atef Assia Bakali Ayoub Bahnasse A A Azzam Willem K M Brauers Bui Cong Cuong Fausto Cavallaro Ahmet evik Robby I Chandra Kalaivani Chandran Victor Chang Chang Su Kim Jyotir Moy Chatterjee Victor Christianto Chunxin Bo Mihaela Colhon Shyamal Dalapati Arindam Dey Dunqian Cao Fahad Alsharari Faruk Karaaslan Aleksandra Fedajev Daniela G fu Hina Gulzar Haitham A El Ghareeb Masooma Raza Hashmi Hewayda El Ghawalby Hoang Viet Long Le Hoang Son F Nirmala Irudayam Branislav Ivanov S Jafari Jeong Gon Lee Milena Jevti Sudan Jha Junhui Kim Ilanthenral Kandasamy W B Vasantha Kandasamy Darjan Karaba evi Song l Karabatak Abdullah Karg n M Karthika Ieva Meidute Kavaliauskiene Madad Khan Majid Khan Manju Khari Kifayat Ullah K Kishore Kul Hur Santanu Kumar Patro Prem Kumar Singh Raghvendra Kumar Tapan Kumar Roy Malayalan Lathamaheswari Luu Quoc Dat T Madhumathi Tahir Mahmood Mladjan Maksimovic Gunasekaran Manogaran Nivetha Martin M Kasi Mayan Mai Mohamed Mohamed Talea Muhammad Akram Muhammad Gulistan Raja Muhammad Hashim Muhammad Riaz Muhammad Saeed Rana Muhammad Zulqarnain Nada A Nabeeh Deivanayagampillai Nagarajan Xenia Negrea Nguyen Xuan Thao Jagan M Obbineni Angelo de Oliveira M Parimala Gabrijela Popovic Ishaani Priyadarshini Yaser Saber Mehmet ahin Said Broumi A A Salama M Saleh Ganeshsree Selvachandran D n eng r Shio Gai Quek Songtao Shao Dragi a Stanujki Surapati Pramanik Swathi Sundari Sundaramoorthy Mirela Teodorescu Sel uk Topal Muhammed Turhan Alptekin Uluta Luige Vl d reanu Victor Vl d reanu tefan Vl du escu Dan Valeriu Voinea Volkan Duran Navneet Yadav Yanhui Guo Naveed Yaqoob Yongquan Zhou Young Bae Jun Xiaohong Zhang Xiao Long Xin Edmundas Kazimieras Zavadskas

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