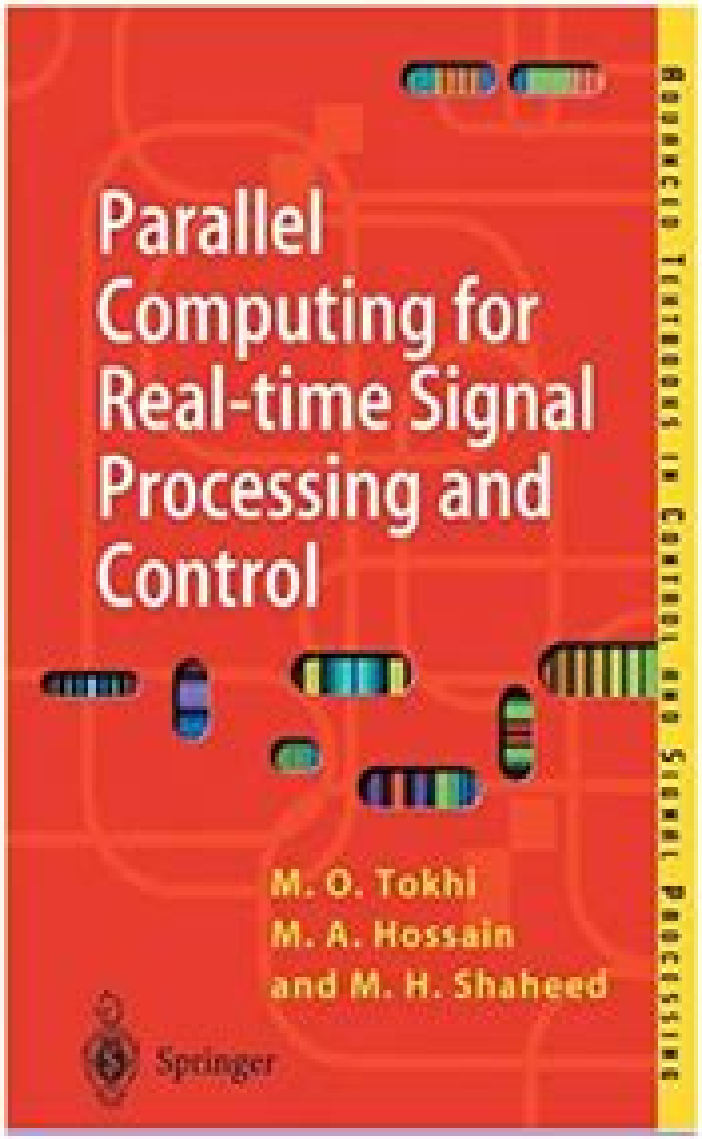

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Parallel Computing For Realtime Signal Procebing And Control

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High-performance Parallel Computing for Real-time Signal Processing and Control José Miguel Martínez Villaseñor,2006 **Applied Computing** Suresh Manandhar,Jim Austin,Uday Desai,Yoshio Oyanagi,Asoke Talukder,2005-01-11 The focus of the Asian Applied Computing Conference AACC is primarily to bring the research in computer science closer to practical applications The conference is aimed primarily at topics that have immediate practical bene ts By hosting the conf ence in the developingnations in Asia we aim to provide a forum for engagingboth the academic and the commercial sectors in that region The rst conference Information Technology Prospects and Challenges was held in May 2003 in Kathmandu Nepal Thisyear theconferencenamewas changedto Asian AppliedComputingConference to re ect both the regional and the application oriented nature of the conference AACC is planned to be a themed conference with a primary focus on a small set of topics although other relevant applied topics will be considered The theme in AACC 2004 was on the following topics systems and architectures mobile and ubiquitous computing soft computing man machine interfaces and innovative applications for the developing world AACC 2004 attracted 184 paper submissions from around the world making the reviewing and the selection process tough and time consuming The selected papers covered a wide range of topics genetic algorithms and soft computing scheduling timization andconstraintsolving neuralnetworksandsupportvectormachines natural language processing and information retrieval speech and signal processing networks and mobile computing parallel grid and high performance computing innovative plications for the developing world cryptography and security and machine lea ing Papers were primarily judged on originality presentation relevance and quality of work Papers that had clearly demonstrated results were given preference **Scientific and Technical Aerospace Reports** ,1992 **Advances In Climbing And Walking Robots - Proceedings Of 10th International Conference (Clawar 2007)** Ming Xie,Steven Dubowsky,Jean-guy Fontaine,Mohammad Osman Tokhi,Gurvinder S Virk,2007-07-11 Robotics is an exciting field in engineering and natural sciences Robotics has already

made a significant contribution to many industries with the widespread use of industrial robots for tasks such as assembly welding painting and handling materials In parallel we have witnessed the emergence of special robots which can undertake assistive jobs such as search and rescue de mining surveillance exploration and security functions Indeed the interest in mobile machines such as climbing and walking robots has broadened the scope of investigation in robotics This volume covers broad topics related to mobile machines in general and climbing and walking robots in particular Papers from the following keynote speakers are included Heinz Worn University of Karlsruhe Germany Atsuo Takanishi University of Waseda Japan John Billingsley University of Southern Queensland Australia Bryan Bridge London South Bank University UK and Neville Hogan Massachusetts Institute of Technology USA *Real Time Signal Processing X* J. P. Letellier,1987

University of Michigan Official Publication University of Michigan,1999 Each number is the catalogue of a specific school or college of the University *Choice* ,2003 *Proceedings, International Conference on Computer and Information Technology, December 28-29, 2001* ,2001 Contributed papers presented on the fourth year of the ongoing Conference

Programming Real-time Multicomputers for Signal Processing Urban Thoeni,1994 *Resources in Parallel and Concurrent Systems* ,1991 Computer Systems Organization Parallel architecture *Parallel Algorithms and Architectures for DSP Applications* Magdy A. Bayoumi,2012-12-06 Over the past few years the demand for high speed Digital Signal Proces sing DSP has increased dramatically New applications in real time image processing satellite communications radar signal processing pattern recogni tion and real time signal detection and estimation require major improvements at several levels algorithmic architectural and implementation These perfor mance requirements can be achieved by employing parallel processing at all levels Very Large Scale Integration VLSI technology supports and provides a good avenue for parallelism Parallelism offers efficient sohitions to several problems which can arise in VLSI DSP architectures such as 1 Intermediate data communication and routing several DSP algorithms such as FFT involve excessive data routing and reordering Parallelism is an efficient mechanism to minimize the silicon cost and speed up the pro cessing time of the intermediate middle stages 2 Complex DSP applications the required computation is almost doubled Parallelism will allow two similar channels processing at the same time The communication between the two channels has to be minimized 3 Applicatilm specific systems this emerging approach should achieve real time performance in a cost effective way 4 Testability and fault tolerance reliability has become a required feature in most of DSP systems To achieve such property the involved time overhead is significant Parallelism may be the solution to maintain ac ceptable speed performance **Modelling and Simulation 1992** John Stephenson,1992 *Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society* IEEE Engineering in Medicine and Biology Society. Annual Conference,1989 **Computers, Control & Information Theory** ,1984 **IMACS '91** Robert Vichnevetsky,John James Henry Miller,1991 **Annual Report** University of Wisconsin--Madison. College of Engineering,1998 *Proceedings of the Workshop on Space*

Telerobotics, Volume 1 ,1987 **Documentation Abstracts** ,1996 **Proceedings of the ... Annual Conference of the IEEE/Engineering in Medicine and Biology Society** IEEE Engineering in Medicine and Biology Society. Annual Conference,1986

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