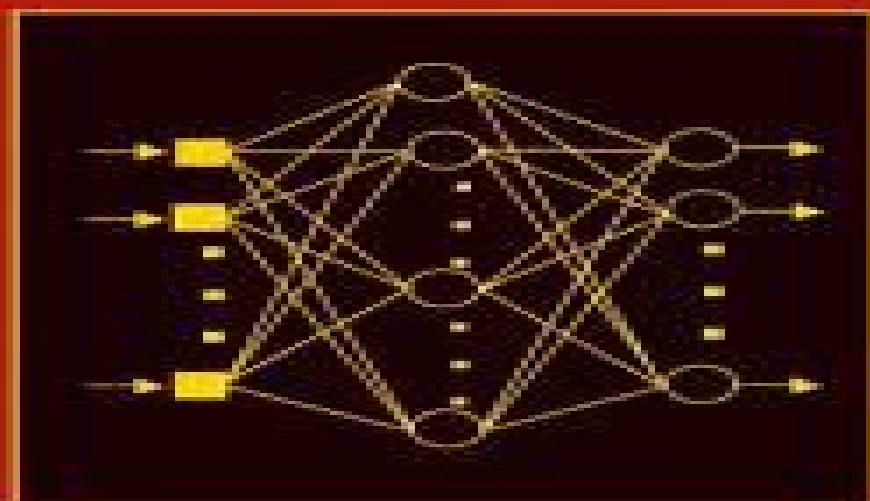


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**ALI HURSON** *and* **VELJKO MILUTINOVIC**

*Series Editors*  
**Ali Hurson and Alii Memen**



# Dataflow Processing Volume 96 Advances In Computers

**Ying Liu**



## **Dataflow Processing Volume 96 Advances In Computers:**

Dataflow Processing Veljko Milutinovic, Ali Hurson, 2015 Since its first volume in 1960 *Advances in Computers* has presented detailed coverage of innovations in computer hardware software theory design and applications It has also provided contributors with a medium in which they can explore their subjects in greater depth and breadth than journal articles usually allow As a result many articles have become standard references that continue to be of significant lasting value in this rapidly expanding field In depth surveys and tutorials on new computer technology Well known authors and researchers in the field Extensive bibliographies with most chapters Many of the volumes are devoted to single themes or subfields of computer science     *DataFlow Supercomputing Essentials* Veljko Milutinovic, Jakob Salom, Dragan Veljovic, Nenad Korolija, Dejan Markovic, Luka Petrovic, 2017-10-30 This informative text reference highlights the potential of DataFlow computing in research requiring high speeds low power requirements and high precision while also benefiting from a reduction in the size of the equipment The cutting edge research and implementation case studies provided in this book will help the reader to develop their practical understanding of the advantages and unique features of this methodology This work serves as a companion title to *DataFlow Supercomputing Essentials Algorithms Applications and Implementations* which reviews the key algorithms in this area and provides useful examples Topics and features reviews the library of tools applications and source code available to support DataFlow programming discusses the enhancements to DataFlow computing yielded by small hardware changes different compilation techniques debugging and optimizing tools examines when a DataFlow architecture is best applied and for which types of calculation describes how converting applications to a DataFlow representation can result in an acceleration in performance while reducing the power consumption explains how to implement a DataFlow application on Maxeler hardware architecture with links to a video tutorial series available online This enlightening volume will be of great interest to all researchers investigating supercomputing in general and DataFlow computing in particular Advanced undergraduate and graduate students involved in courses on Data Mining Microprocessor Systems and VLSI Systems will also find the book to be a helpful reference     **Exploring the DataFlow Supercomputing Paradigm** Veljko Milutinovic, Milos Kotlar, 2019-05-27 This useful text reference describes the implementation of a varied selection of algorithms in the DataFlow paradigm highlighting the exciting potential of DataFlow computing for applications in such areas as image understanding biomedicine physics simulation and business The mapping of additional algorithms onto the DataFlow architecture is also covered in the following Springer titles from the same team *DataFlow Supercomputing Essentials Research Development and Education DataFlow Supercomputing Essentials Algorithms Applications and Implementations and Guide to DataFlow Supercomputing Topics and Features* introduces a novel method of graph partitioning for large graphs involving the construction of a skeleton graph describes a cloud supported web based integrated development environment that can develop and run programs without DataFlow hardware owned by the user

showcases a new approach for the calculation of the extrema of functions in one dimension by implementing the Golden Section Search algorithm reviews algorithms for a DataFlow architecture that uses matrices and vectors as the underlying data structure presents an algorithm for spherical code design based on the variable repulsion force method discusses the implementation of a face recognition application using the DataFlow paradigm proposes a method for region of interest based image segmentation of mammogram images on high performance reconfigurable DataFlow computers surveys a diverse range of DataFlow applications in physics simulations and investigates a DataFlow implementation of a Bitcoin mining algorithm This unique volume will prove a valuable reference for researchers and programmers of DataFlow computing and supercomputing in general Graduate and advanced undergraduate students will also find that the book serves as an ideal supplementary text for courses on Data Mining Microprocessor Systems and VLSI Systems Creativity in Computing and DataFlow SuperComputing ,2017-01-02 Creativity in Computing and DataFlow Supercomputing the latest release in the Advances in Computers series published since 1960 presents detailed coverage of innovations in computer hardware software theory design and applications In addition it provides contributors with a medium in which they can explore topics in greater depth and breadth than journal articles typically allow As a result many articles have become standard references that continue to be of significant lasting value in this rapidly expanding field Provides in depth surveys and tutorials on new computer technology Presents well known authors and researchers in the field Includes extensive bibliographies with most chapters Contains extensive chapter coverage that is devoted to single themes or subfields of computer science **Embedded Computer Vision** Branislav Kisacanin,Shuvra S. Bhattacharyya,Sek Chai,2008-09-26 As a graduate student at Ohio State in the mid 1970s I inherited a unique computer vision laboratory from the doctoral research of previous students They had designed and built an early frame grabber to deliver digitized color video from a very large electronic video camera on a tripod to a mini computer system with a huge disk drive about the size of four washing machines They had also designed a binary image array processor and programming language complete with a user's guide to facilitate designing software for this one of a kind processor The overall system enabled programmable real time image processing at video rate for many operations I had the whole lab to myself I designed software that detected an object in the field of view tracked its movements in real time and displayed a running description of the events in English For example An object has appeared in the upper right corner It is moving down and to the left Now the object is getting closer The object moved out of sight to the left about like that The algorithms were simple relying on a sufficient image intensity difference to separate the object from the background a plain wall From computer vision papers I had read I knew that vision in general imaging conditions is much more sophisticated But it worked it was great fun and I was hooked *EUROMICRO 96* Peter Milligan,Krzysztof Kuchcinski,1996 Applied Artificial Intelligence 4: Medicine, Biology, Chemistry, Financial, Games, Engineering Nenad Filipović,2025-07-17 The book covers the state of the art research knowledge and results on the innovative theories

methodology and applications of artificial intelligence and its sub domain like deep learning in different areas such as medicine economy education law smart city government industry etc Moreover the book aims to provide a platform for researchers and practitioners for both academia and industry to share the information about cutting edge developments in the field of artificial intelligence The chapters in this book integrated approach toward global exchange of information on technological advances scientific innovations and the effectiveness of various regulatory programs toward AI application in medicine biology chemistry financial games law and engineering Real examples from academia and industry give beyond state of the art for application of AI in different areas These chapters are extended papers from the Third Serbian International Conference on Applied Artificial Intelligence SICAAI which was held in Kragujevac Serbia on May 23 24 2024

*Formal Methods for Components and Objects* Frank S.de Boer,2003-10-09 This book presents revised tutorial lectures given by invited speakers at the First International Symposium on Formal Methods for Components and Objects FMCO 2002 held in Leiden The Netherlands in November 2002 The 21 revised lectures by leading researchers present a comprehensive account of the potential of formal methods applied to complex software systems such as components and object systems The book makes a unique contribution to bridging the gap between theory and practice in software engineering **The Fifth Generation Computer Project** Scarrott,2014-05-23 The Fifth Generation Computer Project is a two part book consisting of the invited papers and the analysis The invited papers examine various aspects of The Fifth Generation Computer Project The analysis part assesses the major advances of the Fifth Generation Computer Project and provides a balanced analysis of the state of the art in The Fifth Generation This part provides a balanced and comprehensive view of the development in Fifth Generation Computer technology The Bibliography compiles the most important published material on the subject of The Fifth Generation International Conference on Algorithms and Architectures for Parallel Processing ,2000 **Tutorial Supercomputers** Kai Hwang,1984 Advances in Optical Information Processing ,1996 **Index of Conference Proceedings** British Library. Document Supply Centre,1997 Computers, Control & Information Theory ,1982

*Advanced Computer Architecture* D. P. Agrawal,1986 Computer architecture is expected to cover the gap between digital hardware and computer software This tutorial will emphasize the importance of such a close interaction and the impact of parallel distributed processing and VLSI technology will be clearly shown Other important issues include examination of tradeoffs in the design of supercomputers and potential advantages of unique architectural concepts Strategies for evaluating system performance will also be covered This tutorial is meant for system designers application engineers scientists researchers and students Some background in computer organization architecture will be assumed

**Proceedings** ,1988 Proceedings of the USENIX ... Annual Technical Conference ,2002 International Aerospace Abstracts ,1996 **Bibliographic Guide to Computer Science** ,1991 **Subject Guide to Books in Print** ,1997

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