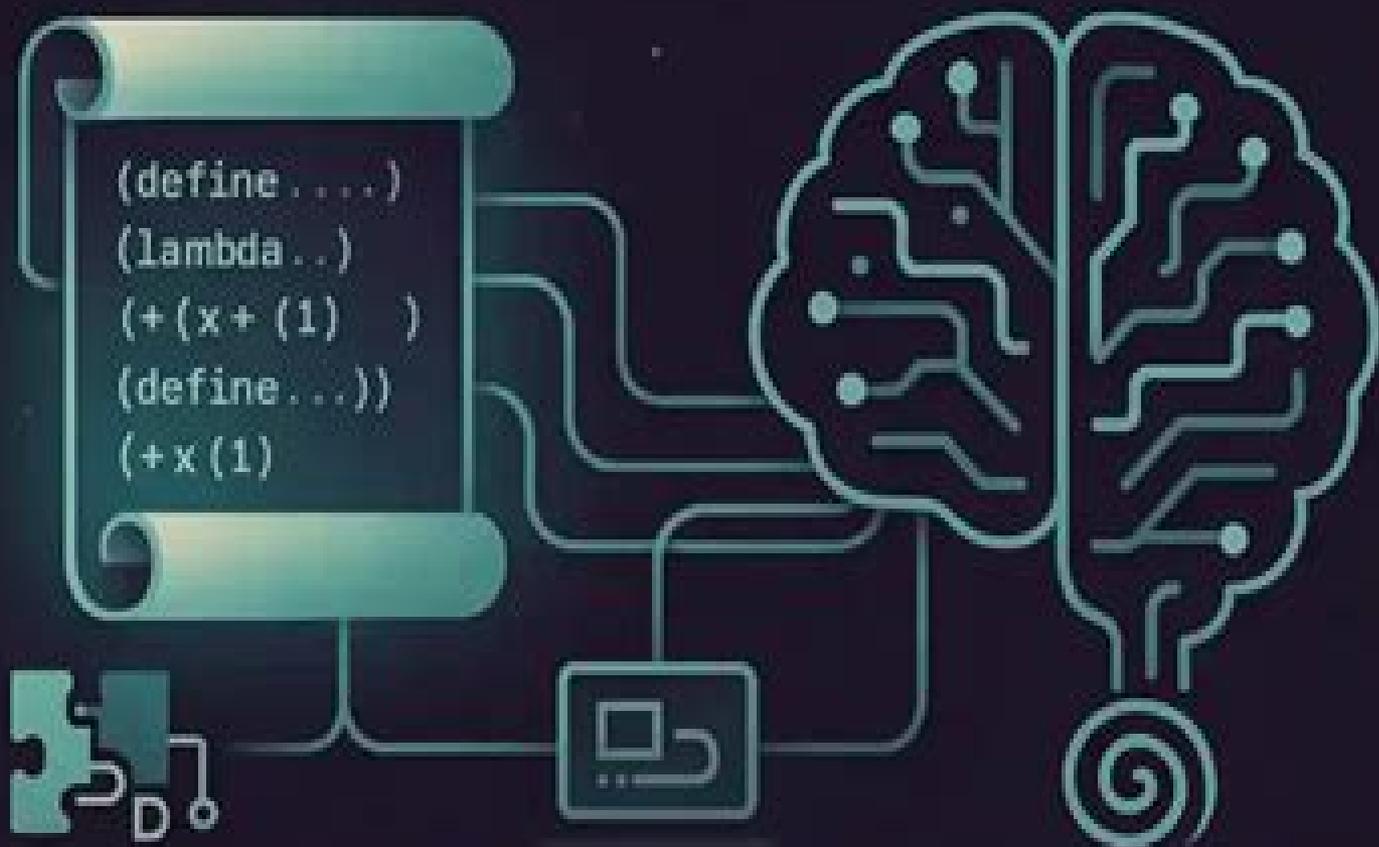


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Symbolic Computing With Lisp

Clifford Lane



Symbolic Computing With Lisp:

Symbolic Computing with Lisp Robert D. Cameron, Anthony H. Dixon, 1992 *Symbolic Computing with LISP and PROLOG* Robert A. Mueller, Rex L. Page, 1988-11-25 A practical introduction to symbolic computing and denotational programming First part of the book covers programming Second part addresses symbolic computing in such areas as game playing language translation and theorem proving For each topic there are example problems with proposed solutions followed by working programs using the techniques presented earlier in the text Two programs using a denotational approach accompany each of the applications in symbolic computing one in Lisp and one in Prolog Symbolic Computing Nils M. Holm, 2005-01 Symbolic Computing covers various fundamentals of computing science in terms of purely symbolic LISP Topics include for example functions recursion sorting backtracking parsing arbitrary precision arithmetics formal semantics and scoping strategies Pure LISP is an elegant flexible and powerful mathematical system and programming language It shares a lot of properties with modern dialects of LISP such as Common Lisp and Scheme **Common LISP** David S. Touretzky, 2014-02-20 Highly accessible treatment covers cons cell structures evaluation rules programs as data recursive and applicable programming styles Nearly 400 illustrations answers to exercises toolkit sections and a variety of complete programs 1990 edition Lisp and Symbolic Computation, 1995 LISP David S. Touretzky, 1984 Introduction getting acquainted Functions and data Lists EVAL notation Conditionals Global variables and side effects List data structures Applicative operators Recursion Elementary input output Iteration Property lists Recommended further reading Dialects of Lisp Extensions to Lisp Index *LISP* David S. Touretzky, 1984 Features the List Processing Capabilities of this Computer Language **Languages and Compilers for Parallel Computing** Utpal Banerjee, David Gelernter, Alex Nicolau, David A. Padua, 1992 This volume contains the proceedings of the Fourth Workshop on Languages and Compilers for Parallel Computing held in Santa Clara California in August 1991 The purpose of the workshop held every year since 1988 is to bring together the leading researchers on parallel programming language design and compilation techniques for parallel computers The papers in this book cover several important topics including 1 languages and structures to represent programs internally in the compiler 2 techniques to analyze and manipulate sequential loops in order to generate a parallel version 3 techniques to detect and extract fine grain parallelism 4 scheduling and memory management issues in automatically generated parallel programs 5 parallel programming language designs and 6 compilation of explicitly parallel programs Together the papers give a good overview of the research projects underway in 1991 in this field Parallel Computation and Computers for Artificial Intelligence J.S. Kowalik, 2012-12-06 It has been widely recognized that artificial intelligence computations offer large potential for distributed and parallel processing Unfortunately not much is known about designing parallel AI algorithms and efficient easy to use parallel computer architectures for AI applications The field of parallel computation and computers for AI is in its infancy but some significant ideas have appeared and initial practical experience has become

available The purpose of this book has been to collect in one volume contributions from several leading researchers and pioneers of AI that represent a sample of these ideas and experiences This sample does not include all schools of thought nor contributions from all leading researchers but it covers a relatively wide variety of views and topics and in this sense can be helpful in assessing the state of the art We hope that the book will serve at least as a pointer to more specialized literature and that it will stimulate interest in the area of parallel AI processing It has been a great pleasure and a privilege to cooperate with all contributors to this volume They have my warmest thanks and gratitude Mrs Birgitta Knapp has assisted me in the editorial task and demonstrated a great deal of skill and patience Janusz S Kowalik vii INTRODUCTION Artificial intelligence AI computer programs can be very time consuming

Notes from the Metalevel Heinrich Taube, 2013-10-23 First Published in 2005 Routledge is an imprint of Taylor Francis an informa company *Mathematical Aspects of Scientific Software* J.R. Rice, 2012-12-06 Since scientific software is the fuel that drives today's computers to solve a vast range of problems huge efforts are being put into the development of new software systems and algorithms for scientific problem solving This book explores how scientific software impacts the structure of mathematics how it creates new subfields and how new classes of mathematical problems arise The focus is on five topics where the impact is currently being felt and where important new challenges exist namely the new subfield of parallel and geometric computations the emergence of symbolic computation systems into general use the potential emergence of new high level mathematical systems and the crucial question of how to measure the performance of mathematical problem solving tools

LISP and Symbolic Computation (majalah), 1996

Encyclopedia of Parallel Computing David Padua, 2011-09-08 Containing over 300 entries in an A Z format the Encyclopedia of Parallel Computing provides easy intuitive access to relevant information for professionals and researchers seeking access to any aspect within the broad field of parallel computing Topics for this comprehensive reference were selected written and peer reviewed by an international pool of distinguished researchers in the field The Encyclopedia is broad in scope covering machine organization programming languages algorithms and applications Within each area concepts designs and specific implementations are presented The highly structured essays in this work comprise synonyms a definition and discussion of the topic bibliographies and links to related literature Extensive cross references to other entries within the Encyclopedia support efficient user friendly searchers for immediate access to useful information Key concepts presented in the Encyclopedia of Parallel Computing include laws and metrics specific numerical and non numerical algorithms asynchronous algorithms libraries of subroutines benchmark suites applications sequential consistency and cache coherency machine classes such as clusters shared memory multiprocessors special purpose machines and dataflow machines specific machines such as Cray supercomputers IBM's cell processor and Intel's multicore machines race detection and auto parallelization parallel programming languages synchronization primitives collective operations message passing libraries checkpointing and operating systems Topics covered Speedup Efficiency

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Foundations of Logic and Functional Programming Mauro Boscarol, Luigia Carlucci Aiello, 1988-04-27 This volume consists of some of the papers that were delivered during the workshop on Foundations of Logic and Functional Programming held in Trento Italy from December 15th to 19th 1986 The meeting centered on themes and trends in Functional Programming and in Logic Programming This book contains five papers contributed by the invited speakers and five selected contributions

Molecular Bioinformatics Steffen Schulze-Kremer, 2011-07-20 No detailed description available for Molecular Bioinformatics

LISP and Functional Programming, 1982 *Exploring Artificial Intelligence* Howard E. Shrobe, 2014-05-12 Exploring Artificial Intelligence Survey Talks from the National Conference on Artificial Intelligence provides information pertinent to the distinct subareas of artificial intelligence research This book discusses developments in machine learning techniques Organized into six parts encompassing 16 chapters this book begins with an overview of intelligent tutoring systems which describes how to guide a student to learn new concepts This text then links closely with one of the concerns of intelligent tutoring systems namely how to interact through the utilization of natural language Other chapters consider the various aspects of natural language understanding and survey the huge body of work that tries to characterize heuristic search programs This book discusses as well how computer programs can create plans to satisfy goals The final chapter deals with computational facilities that support This book is a valuable resource for cognitive scientists psychologists domain experts computer scientists instructional designers expert teachers and research workers

Conference Record of the 1980 LISP Conference, 1985

Parallel Symbolic Computing: Languages, Systems, and Applications Robert H. Halstead, Takayasu Ito, 1993-11-03 Parallel and distributed computing are becoming increasingly important as cost effective ways to achieve high computational performance Symbolic computations are notable for their use of irregular data structures and hence parallel symbolic computing has its own distinctive set of technical challenges The papers in this book are based on presentations made at a workshop at MIT in October 1992 They present results in a wide range of areas including speculative computation scheduling techniques program development tools and environments programming languages and systems models of concurrency and distribution parallel computer architecture and symbolic applications

The Journal of Corporate Computing, 1986

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