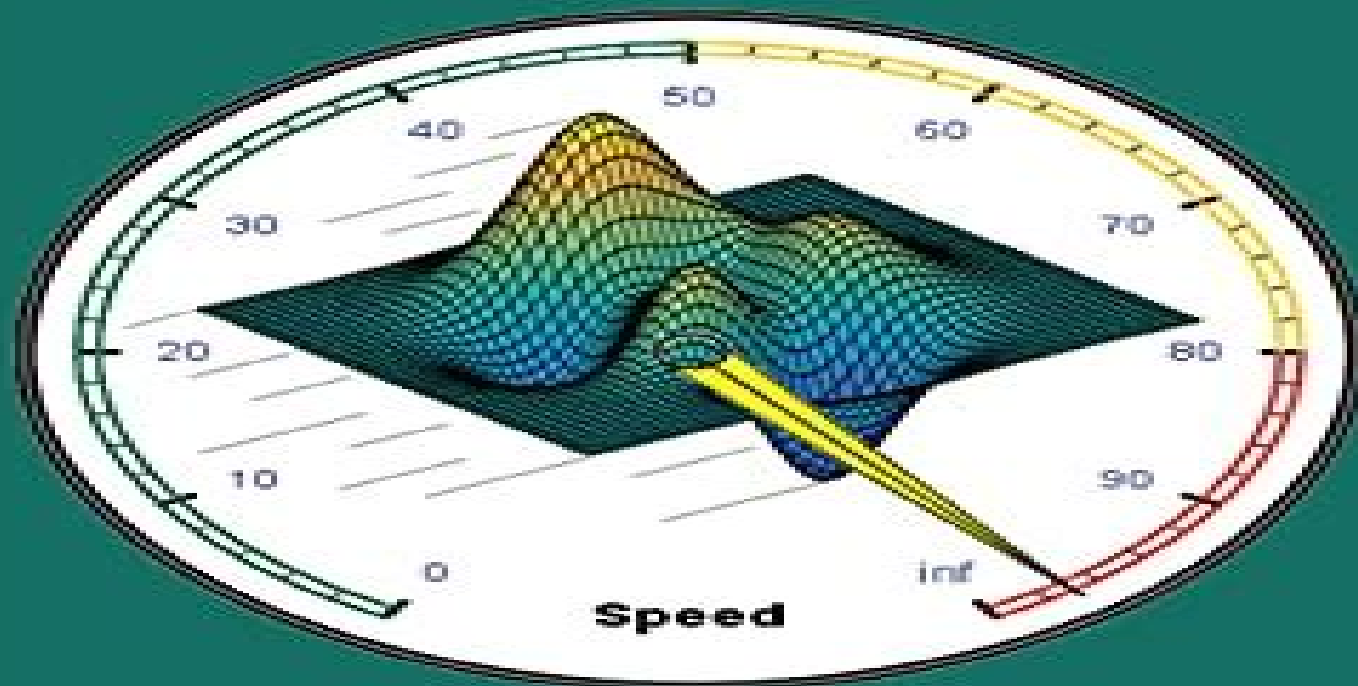


Accelerating MATLAB® Performance

1001 tips to speed up MATLAB programs



Yair Altman

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Accelerating Matlab Performance 1001 Tips To Speed Up Matlab Programs

David E. Hiebeler



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Linear Programming Using MATLAB® Nikolaos Ploskas, Nikolaos Samaras, 2017-10-28 This book offers a theoretical and computational presentation of a variety of linear programming algorithms and methods with an emphasis on the revised simplex method and its components A theoretical background and mathematical formulation is included for each algorithm as well as comprehensive numerical examples and corresponding MATLAB code The MATLAB implementations presented in this book are sophisticated and allow users to find solutions to large scale benchmark linear programs Each algorithm is followed by a computational study on benchmark problems that analyze the computational behavior of the presented algorithms As a solid companion to existing algorithmic specific literature this book will be useful to researchers scientists mathematical programmers and students with a basic knowledge of linear algebra and calculus The clear presentation enables the reader to understand and utilize all components of simplex type methods such as presolve techniques scaling techniques pivoting rules basis update methods and

sensitivity analysis **R and MATLAB** David E. Hiebeler, 2018-09-03 The First Book to Explain How a User of R or MATLAB Can Benefit from the Other In today's increasingly interdisciplinary world R and MATLAB users from different backgrounds must often work together and share code R and MATLAB is designed for users who already know R or MATLAB and now need to learn the other platform The book makes the transition from one platform to the other as quick and painless as possible Enables R and MATLAB Users to Easily Collaborate and Share Code The author covers essential tasks such as working with matrices and vectors writing functions and other programming concepts graphics numerical computing and file input output He highlights important differences between the two platforms and explores common mistakes that are easy to make when transitioning from one platform to the other **GPU Programming in MATLAB** Nikolaos Ploskas, Nikolaos Samaras, 2016-08-25 GPU programming in MATLAB is intended for scientists engineers or students who develop or maintain applications in MATLAB and would like to accelerate their codes using GPU programming without losing the many benefits of MATLAB The book starts with coverage of the Parallel Computing Toolbox and other MATLAB toolboxes for GPU computing which allow applications to be ported straightforwardly onto GPUs without extensive knowledge of GPU programming The next part covers built-in GPU enabled features of MATLAB including options to leverage GPUs across multicore or different computer systems Finally advanced material includes CUDA code in MATLAB and optimizing existing GPU applications Throughout the book examples and source codes illustrate every concept so that readers can immediately apply them to their own development Provides in depth comprehensive coverage of GPUs with MATLAB including the parallel computing toolbox and built-in features for other MATLAB toolboxes Explains how to accelerate computationally heavy applications in MATLAB without the need to re-write them in another language Presents case studies illustrating key concepts across multiple fields Includes source code sample datasets and lecture slides **Optimizations and Programming** Abdelkhalak El Hami, Bouchaib Radi, 2021-04-08 This book is a general presentation of complex systems examined from the point of view of management There is no standard formula to govern such systems nor to effectively understand and respond to them The interdisciplinary theory of self-organization is teeming with examples of living systems that can reorganize at a higher level of complexity when confronted with an external challenge of a certain magnitude Modern businesses considered as complex systems ideally know how to flexibly and resiliently adapt to their environment and also how to prepare for change via self-organization Understanding sources of potential crisis is essential for leaders though not all crises are necessarily bad news as creative firms know how to respond to challenges through innovation new products and markets organizational learning for collective intelligence and more Transient Analysis of Power Systems Juan A. Martinez-Velasco, 2020-02-10 A hands-on introduction to advanced applications of power system transients with practical examples Transient Analysis of Power Systems A Practical Approach offers an authoritative guide to the traditional capabilities and the new software and hardware approaches that can be used to carry out transient studies and make possible new and more complex research The book

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Numerical Methods and Optimization in Finance Manfred Gilli,Dietmar Maringer,Enrico Schumann,2019-08-16 Computationally intensive tools play an increasingly important role in financial decisions Many financial problems ranging from asset allocation to risk management and from option pricing to model calibration can be efficiently handled using modern computational techniques Numerical Methods and Optimization in Finance presents such computational techniques with an emphasis on simulation and optimization particularly so called heuristics This book treats quantitative analysis as an essentially computational discipline in which applications are put into software form and tested empirically This revised edition includes two new chapters a self contained tutorial on implementing and using heuristics and an explanation of software used for testing portfolio selection models Postgraduate students researchers in programs on quantitative and computational finance and practitioners in banks and other financial companies can benefit from this second edition of Numerical Methods and Optimization in Finance

Nonlinear and Constrained Control Emanuele Garone,Ilya Kolmanovsky,Tam W. Nguyen,2025-09-22 This book focuses on recent advances in and applications of constrained and nonlinear control The first part concentrates on theoretical aspects highlighting synergies between constrained and nonlinear control and explaining challenges and opportunities The second part examines practical applications This collection originated from a workshop at the Royal Academy of Belgium The volume features contributions from authors based in both academia and industry Each chapter provides an introduction to a specific research area reports new findings and comments on challenges and future research opportunities The book serves as an entry point for readers interested in recent developments in constrained and

nonlinear control **Accelerating MATLAB with GPU Computing** Jung W. Suh, Youngmin Kim, 2013-11-18 Beyond simulation and algorithm development many developers increasingly use MATLAB even for product deployment in computationally heavy fields This often demands that MATLAB codes run faster by leveraging the distributed parallelism of Graphics Processing Units GPUs While MATLAB successfully provides high level functions as a simulation tool for rapid prototyping the underlying details and knowledge needed for utilizing GPUs make MATLAB users hesitate to step into it Accelerating MATLAB with GPUs offers a primer on bridging this gap Starting with the basics setting up MATLAB for CUDA in Windows Linux and Mac OS X and profiling it then guides users through advanced topics such as CUDA libraries The authors share their experience developing algorithms using MATLAB C and GPUs for huge datasets modifying MATLAB codes to better utilize the computational power of GPUs and integrating them into commercial software products Throughout the book they demonstrate many example codes that can be used as templates of C MEX and CUDA codes for readers projects Download example codes from the publisher s website <http://booksite.elsevier.com/9780124080805> Shows how to accelerate MATLAB codes through the GPU for parallel processing with minimal hardware knowledge Explains the related background on hardware architecture and programming for ease of use Provides simple worked examples of MATLAB and CUDA C codes as well as templates that can be reused in real world projects

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