

MATLAB by Example

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1 Introduction

This document¹ is aimed primarily for postgraduates and project students who are interested in using MATLAB in the course of their work. Previous experience with MATLAB is not assumed. The emphasis is on “learning by doing” - try the examples out as you go along and read the explanations after. If you read the *online version*² you can paste the scripts into your editor and save a lot of time.

2 Getting started

On the teaching system you can type `matlab` at a Terminal window, or look in the Programs/ Matlab submenu of the Start menu at the bottom-left of the screen. Depending on the set-up, you might start with several windows (showing documentation, etc) or just a command line. This document will focus on command line operations. In the examples below, `>>` represents matlab’s command-line prompt.

3 The MATLAB Language

The MATLAB interface is a command line interface rather like most BASIC environments. However MATLAB works almost exclusively with matrices : scalars simply being 1-by-1 matrices. At the most elementary level, MATLAB can be a glorified calculator:

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²http://www-h.eng.cam.ac.uk/help/tpl/programs/matlab_by_example/matlab_by_example.html

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Albert A Gayle



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Software Engineering and Knowledge Engineering: Theory and Practice Yanwen Wu,2012-01-15 The volume includes a set of selected papers extended and revised from the I2009 Pacific Asia Conference on Knowledge Engineering and Software Engineering KESE 2009 was held on December 19 20 2009 Shenzhen China Volume 1 is to provide a forum for researchers educators engineers and government officials involved in the general areas of Computer and Software Engineering to disseminate their latest research results and exchange views on the future research directions of these fields 140 high quality papers are included in the volume Each paper has been peer reviewed by at least 2 program committee members and selected by the volume editor Prof Yanwen Wu On behalf of this volume we would like to express our sincere appreciation to all of authors and referees for their efforts reviewing the papers Hoping you can find lots of profound research ideas and results on the related fields of Computer and Software Engineering Advances in Mechatronics and Control Engineering II Krzysztof Galkowski,Yun Hae Kim,2013-10-15 Selected peer reviewed papers from the 2013 2nd International Conference on Mechatronics and Control Engineering ICMCE 2013 August 28 29 2013 Guangzhou China

Automation and Robotics in Production Engineering Antoni Świć,Jarosław Zubrzycki,2016-07-06 Selected peer reviewed papers from the International Conference on Science and Technology Automation and Robotics in Production Engineering July 08 10 2015 Lublin Poland **Journal of Engineering for Gas Turbines and Power** ,2008 Software Technology And Engineering - Proceedings Of The International Conference On Icste 2009 Venkatesh Mahadevan,Jianhong Zhou,Allan Ng,2009-07-16 The 2009 International Conference on Software Technology and Engineering ICSTE 2009 will be held in Chennai India during July 24 26 2009 The objective of the ICSTE 2009 is to provide a platform for researchers engineers academicians as well as industrial professionals from all over the world to present their research results and development activities in Software Technology and Engineering This conference provides opportunities for the delegates to exchange new ideas and application experiences to establish business or research relations and to find global partners for future collaboration Submitted conference papers will be reviewed by technical committees of the conference **8th European Medical and Biological Engineering Conference** Tomaz Jarm,Aleksandra Cvetkoska,Samo Mahnič-Kalamiza,Damijan Miklavcic,2020-11-29 This book aims at informing on new trends challenges and solutions in the multidisciplinary field of biomedical engineering It covers traditional biomedical engineering topics as well as innovative applications such as artificial intelligence in health care tissue engineering neurotechnology and wearable devices Further topics include mobile health and electroporation based technologies as well as new treatments in medicine Gathering the proceedings of the 8th European Medical and Biological Engineering Conference EMBEC 2020 held on November 29 December 3 2020 in Portoro Slovenia this book bridges fundamental and clinically oriented research emphasizing the role of education translational research and commercialization of new ideas in biomedical engineering It aims at inspiring and fostering communication and

collaboration between engineers physicists biologists physicians and other professionals dealing with cutting edge themes in and advanced technologies serving the broad field of biomedical engineering Innovations in Engineering Education ,2007

Innovative Technology and Sustainable Engineering Noppakun Sanpo,Jirasak Tharajak,Paisan Kanthang,2017-06-06
7th RMUTP ICONSCI Selected peer reviewed papers from the 7th RMUTP International Conference on Science Technology and Innovation for Sustainable Development Challenges towards the Green Innovative Society June 23 24 2016 Bangkok Thailand *Journal of Biomimetics, Biomaterials and Biomedical Engineering Vol. 31* Sooraj Hussain Nandyala,2017-03-30

The 31th volume of the Journal of Biomimetics Biomaterials and Biomedical Engineering includes papers which describe the results of scientific researches of nature objects for biomimetic approach in engineering design some applied aspects of the biomechanics of human and utilization of modern biomaterials and also of modern techniques of investigations and treatment in the biomedical practice We hope that this volume will be useful for many researchers and engineers from different

branches of biomedicine and engineering sciences **International Conference on Simulation in Engineering Education** Hamid Vakilzadian,1992 *Engineering Education, Preparation for Life* American Society for Engineering Education. Conference,1984 **Proceedings of the ... ASME Design Engineering Technical Conferences** ,2003

Advances in Service and Industrial Robotics Carlo Ferraresi,Giuseppe Quaglia,2017-07-24 This volume contains the proceedings of the 26th International Conference on Robotics in Alpe Adria Danube Region RAAD 2017 held at the Polytechnic University of Turin Italy from June 21 23 2017 The conference brought together academic and industrial researchers in robotics from 30 countries the majority of them affiliated to the Alpe Adria Danube Region and their worldwide partners RAAD 2017 covered all major areas of R D and innovation in robotics including the latest research trends The book provides an overview on the advances in service and industrial robotics The topics are presented in a sequence starting from the classical robotic subjects such as kinematics dynamics structures control and ending with the newest topics like human robot interaction and biomedical applications Researchers involved in the robotic field will find this an extraordinary and up to date perspective on the state of the art in this area **Journal of Engineering Education** ,2002

Annual Conference Proceedings American Society for Engineering Education. Conference,1995 **INTERNATIONAL CONFERENCE ON INNOVATIONS IN COMMUNICATIONS AND COMPUTER ENGINEERING - ICIcce'15** ,2015-02-15 International Conference on innovations in communications and computer science engineering ICIcce 15 is organized by International Journal for Trends in Engineering Technology IJTET The aim of the conference is to carry together professionals and researchers from academic to industry to achieve their utilization in the areas and to encourage their development with genuine technology methods The conference theme concentrates to discover the latest technological innovation trends in technology and engineering and that are experienced by the professionals with the present strict rules and to convert these complications into prospects Authors are approved to post original research or system documents on

any appropriate topics These can either be frequent or brief documents **Journal of Dynamic Systems, Measurement, and Control** ,2003 Publishes theoretical and applied original papers in dynamic systems Theoretical papers present new theoretical developments and knowledge for controls of dynamical systems together with clear engineering motivation for the new theory Applied papers include modeling simulation and corroboration of theory with emphasis on demonstrated practicality *Real-time Systems Education* ,1996 **EMBC 2004** IEEE Engineering in Medicine and Biology Society. Annual Conference,IEEE Engineering in Medicine and Biology Society,2004 IEEE Catalog Number 04CH37558 T p verso
The Ohio Journal of Science ,1989 Includes book reviews and abstracts

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