Éric Walter and Luc Pronzato

Identification of
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from Experimental Data

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Identification Of Parametric Models From Experimental Data Communications And Control Engineering

Jesus Lopez-Fidalgo,Juan Manuel Rodríguez-Díaz,Bernard Torsney

Identification Of Parametric Models From Experimental Data Communications And Control Engineering:

Identification of Parametric Models Eric Walter,Luc Pronzato,1997-01-14 The presentation of a coherent methodology for the estimation of the parameters of mathematical models from experimental data is examined in this volume Many topics are covered including the choice of the structure of the mathematical model the choice of a performance criterion to compare models the optimization of this performance criterion the evaluation of the uncertainty in the estimated parameters the design of experiments so as to get the most relevant data and the critical analysis of results There are also several features unique to the work such as an up to date presentation of the methodology for testing models for identifiability and distinguishability and a comprehensive treatment of parametric optimization which includes greater consider ation of numerical aspects and which examines recursive and non recursive methods for linear and nonlinear models **System Identification** Karel J. Keesman,2011-05-16 System Identification shows the student reader how to approach the system identification problem in a systematic fashion The process is divided into three basic steps experimental design and data collection model structure selection and parameter estimation and model validation each of which is the subject of one or more parts of the text Following an introduction on system theory particularly in relation to model representation and model properties the book contains four parts covering data based identification non parametric methods for use when prior system knowledge is very limited time invariant identification for systems with constant parameters time varying systems identification primarily with recursive estimation techniques and model validation methods A fifth part composed of appendices covers the various aspects of the underlying mathematics needed to begin using the text The book uses essentially semi physical or gray box modeling methods although data based transfer function system descriptions are also introduced The approach is problem based rather than rigorously mathematical The use of finite input output data is demonstrated for frequency and time domain identification in static dynamic linear nonlinear time invariant and time varying systems Simple examples are used to show readers how to perform and emulate the identification steps involved in various control design methods with more complex illustrations derived from real physical chemical and biological applications being used to demonstrate the practical applicability of the methods described End of chapter exercises for which a downloadable instructors Solutions Manual is available from fill in URL here will both help students to assimilate what they have learned and make the book suitable for self tuition by practitioners looking to brush up on modern techniques Graduate and final year undergraduate students will find this text to be a practical and realistic course in system identification that can be used for assessing the processes of a variety of engineering disciplines System Identification will help academic instructors teaching control related to give their students a good understanding of identification methods that can be used in the real world without the encumbrance of undue mathematical detail Control Methods for Electrical Machines Rene Husson,2013-03-01 The type of control system used for electrical machines depends on the use nature of the load operating

states etc to which the machine will be put The precise type of use determines the control laws which apply Mechanics are also very important because they affect performance Another factor of essential importance in industrial applications is operating safety Finally the problem of how to control a number of different machines whose interactions and outputs must be coordinated is addressed and solutions are presented These and other issues are addressed here by a range of expert contributors each of whom are specialists in their particular field This book is primarily aimed at those involved in complex systems design but engineers in a range of related fields such as electrical engineering instrumentation and control and industrial engineering will also find this a useful source of information   *Computational Methods in Systems Biology* David Gilbert,Monika Heiner,2012-09-28 This book constitutes the thoroughly refereed conference proceedings of the 10th International Conference on Computational Methods in Systems Biology CMSB 2012 held in London UK during October 3 5 2012 The 17 revised full papers and 8 flash posters presented together with the summaries of 3 invited papers were carefully reviewed and selected from 62 submissions The papers cover the analysis of biological systems networks and data ranging from intercellular to multiscale Topics included high performance computing and for the first time papers on synthetic biology   **Model Based Parameter Estimation** Hans Georg Bock,Thomas Carraro,Willi Jäger,Stefan Körkel,Rolf Rannacher,Johannes P. Schlöder,2013-02-26 This judicious selection of articles combines mathematical and numerical methods to apply parameter estimation and optimum experimental design in a range of contexts These include fields as diverse as biology medicine chemistry environmental physics image processing and computer vision The material chosen was presented at a multidisciplinary workshop on parameter estimation held in 2009 in Heidelberg The contributions show how indispensable efficient methods of applied mathematics and computer based modeling can be to enhancing the quality of interdisciplinary research The use of scientific computing to model simulate and optimize complex processes has become a standard methodology in many scientific fields as well as in industry Demonstrating that the use of state of the art optimization techniques in a number of research areas has much potential for improvement this book provides advanced numerical methods and the very latest results for the applications under consideration   Computer Methods in Mechanics Mieczyslaw Kuczma,Krzysztof Wilmanski,2010-03-10 Prominent scientists present the latest achievements in computational methods and mechanics in this book These lectures were held at the CMM 2009 conference   **Machine Learning and Knowledge Discovery in Databases** Toon Calders,Floriana Esposito,Eyke Hüllermeier,Rosa Meo,2014-09-01 This three volume set LNAI 8724 8725 and 8726 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2014 held in Nancy France in September 2014 The 115 revised research papers presented together with 13 demo track papers 10 nectar track papers 8 PhD track papers and 9 invited talks were carefully reviewed and selected from 550 submissions The papers cover the latest high quality interdisciplinary research results in all areas related to machine learning and knowledge discovery in databases   Biological Networks

Rudiyanto Gunawan,Neda Bagheri,2019-01-10 This book is a printed edition of the Special Issue Biological Networks that was published in Processes **Applied Control Systems Design** Magdi S. Mahmoud,Yuanqing Xia,2012-04-13 Applied Control System Design examines several methods for building up systems models based on real experimental data from typical industrial processes and incorporating system identification techniques The text takes a comparative approach to the models derived in this way judging their suitability for use in different systems and under different operational circumstances A broad spectrum of control methods including various forms of filtering feedback and feedforward control is applied to the models and the guidelines derived from the closed loop responses are then composed into a concrete self tested recipe to serve as a check list for industrial engineers or control designers System identification and control design are given equal weight in model derivation and testing to reflect their equality of importance in the proper design and optimization of high performance control systems Readers assimilation of the material discussed is assisted by the provision of problems and examples Most of these exercises use MATLAB to make computation and visualization more straightforward Applied Control System Design will be of interest to academic researchers for its comparison of different systems models and their response to different control methods and will assist graduate students in learning the practical necessities of advanced control system design The consistent reference to real systems coupled with self learning tools will assist control practitioners who wish to keep up to date with the latest control design ideas *Advances in Service and Industrial Robotics* Karsten Berns,Daniel Görges,2019-05-07 This book presents the proceedings of the 28th International Conference on Robotics in Alpe Adria Danube Region RAAD 2019 held at the Fraunhofer Zentrum and the Technische Universit t in Kaiserslautern Germany on 19 21 June 2019 The conference brought together academic researchers in robotics from 20 countries mainly affiliated to the Alpe Adria Danube Region and covered all major areas of robotic research development and innovation as well as new applications and current trends Offering a comprehensive overview of the ongoing research in the field of robotics the book is a source of information and inspiration for researchers wanting to improve their work and gather new ideas for future developments It also provides researchers with an innovative and up to date perspective on the state of the art in this area *mODa 8 - Advances in Model-Oriented Design and Analysis* Jesus Lopez-Fidalgo,Juan Manuel Rodríguez-Díaz,Bernard Torsney,2007-05-14 This volume contains the proceedings of the 8th Workshop on Model Oriented Design and Analysis It offers leading and pioneering work on optimal experimental designs both from a mathematical statistical point of view and with regard to real applications Scientists from all over the world have contributed to this volume Primary topics are designs for nonlinear models and applications to experimental medicine **Identifiability and Observability in Epidemiological Models** Nik Cunniffe,Frédéric Hamelin,Abderrahman Iggidr,Alain Rapaport,Gauthier Sallet,2024-07-02 This book introduces the concepts of identifiability and observability in mathematical epidemiology as well as those of observers constructions It first exposes and illustrates on several examples the mathematical definitions and properties of observability and

identifiability A chapter is dedicated to the well known Kermack McKendrick model for which the complete analysis of identifiability and observability is not available in the literature Then several techniques of observer constructions in view of online estimation of state and parameters are presented and deployed on several models New developments relevant for applications in epidemiology are also given Finally practical considerations are discussed with data and numerical simulations related to models previously analysed in the book The book will be appealing to epidemiological modellers and mathematicians working on models in epidemiology This book contributes to Sustainable Development Goal 3 SDG3 Good Health and Well Being   Model Calibration and Parameter Estimation Ne-Zheng Sun,Alexander Sun,2015-07-01 This three part book provides a comprehensive and systematic introduction to these challenging topics such as model calibration parameter estimation reliability assessment and data collection design Part 1 covers the classical inverse problem for parameter estimation in both deterministic and statistical frameworks Part 2 is dedicated to system identification hyperparameter estimation and model dimension reduction and Part 3 considers how to collect data and construct reliable models for prediction and decision making For the first time topics such as multiscale inversion stochastic field parameterization level set method machine learning global sensitivity analysis data assimilation model uncertainty quantification robust design and goal oriented modeling are systematically described and summarized in a single book from the perspective of model inversion and elucidated with numerical examples from environmental and water resources modeling Readers of this book will not only learn basic concepts and methods for simple parameter estimation but also get familiar with advanced methods for modeling complex systems Algorithms for mathematical tools used in this book such as numerical optimization automatic differentiation adaptive parameterization hierarchical Bayesian metamodeling Markov chain Monte Carlo are covered in details This book can be used as a reference for graduate and upper level undergraduate students majoring in environmental engineering hydrology and geosciences It also serves as an essential reference book for professionals such as petroleum engineers mining engineers chemists mechanical engineers biologists biology and medical engineering applied mathematicians and others who perform mathematical modeling   *Parallel Processing and Applied Mathematics* Roman Wyrzykowski,Jack Dongarra,Konrad Karczewski,Jerzy Wasniewski,2008-05-29 This book constitutes the thoroughly refereed post conference proceedings of the 7th International Conference on Parallel Processing and Applied Mathematics PPAM 2007 held in Gdansk Poland in September 2007 The 63 revised full papers of the main conference presented together with 85 revised workshop papers were carefully reviewed and selected from over 250 initial submissions The papers are organized in topical sections on parallel distributed architectures and mobile computing numerical algorithms and parallel numerics parallel and distributed non numerical algorithms environments and tools for as well as applications of parallel distributed grid computing evolutionary computing meta heuristics and neural networks The volume proceeds with the outcome of 11 workshops and minisymposia dealing with novel data formats and algorithms for dense linear algebra

computations combinatorial tools for parallel sparse matrix computations grid applications and middleware large scale computations on grids models algorithms and methodologies for grid enabled computing environments scheduling for parallel computing language based parallel programming models performance evaluation of parallel applications on large scale systems parallel computational biology high performance computing for engineering applications and the minisymposium on interval analysis   *Euro-Par 2008 Parallel Processing* Emilio Luque,Tomas Margalef,Domingo Benítez,2008-08-11 This book constitutes the refereed proceedings of the 14th International Conference on Parallel Computing Euro Par 2008 held in Las Palmas de Gran Canaria Spain in August 2008 The 86 revised papers presented were carefully reviewed and selected from 264 submissions The papers are organized in topical sections on support tools and environments performance prediction and evaluation scheduling and load balancing high performance architectures and compilers parallel and distributed databases grid and cluster computing peer to peer computing distributed systems and algorithms parallel and distributed programming parallel numerical algorithms distributed and high performance multimedia theory and algorithms for parallel computation and high performance networks   **Developments in Reliable Computing** Tibor Csendes,2013-04-17 The SCAN conference the International Symposium on Scientific Com puting Computer Arithmetic and Validated Numerics takes place bian nually under the joint auspices of GAMM Gesellschaft fiir Angewandte Mathematik und Mechanik and IMACS International Association for Mathematics and Computers in Simulation SCAN 98 attracted more than 100 participants from 21 countries all over the world During the four days from September 22 to 25 nine highlighted plenary lectures and over 70 contributed talks were given These figures indicate a large participation which was partly caused by the attraction of the organizing country Hungary but also the effec tive support system have contributed to the success The conference was substantially supported by the Hungarian Research Fund OTKA GAMM the National Technology Development Board OMFB and by the J6zsef Attila University Due to this funding it was possible to subsidize the participation of over 20 scientists mainly from Eastern European countries It is important that the possibly first participation of 6 young researchers was made possible due to the obtained support The number of East European participants was relatively high These results are especially valuable since in contrast to the usual 2 years period the present meeting was organized just one year after the last SCAN xx conference   Optimal Mobile Sensing and Actuation Policies in Cyber-physical Systems Christophe Tricaud,YangQuan Chen,2011-10-14 A successful cyber physical system a complex interweaving of hardware and software with some part of the physical environment depends on proper identification of the often pre existing physical element A bespoke cyber part of the system may then be designed from scratch Optimal Mobile Sensing and Actuation Strategies in Cyber physical Systems focuses on distributed parameter systems the dynamics of which can be modelled with partial differential equations These are very challenging to observe their states and inputs being distributed throughout a spatial domain Consequently systematic approaches to the optimization of sensor location have to

be devised for parameter estimation The text begins by reviewing the field of cyber physical systems and introducing background notions of distributed parameter systems and optimal observation theory New research problems are then defined within this framework Two important problems considered are optimal mobile sensor trajectory planning and the accuracy effects and allocation of remote sensors These are followed up with a solution to the problem of optimal robust estimation Actuation policies are then introduced into the framework with the purpose of improving estimation and optimizing the trajectories of both sensors and actuators simultaneously The large number of illustrations within the text will assist the reader to visualize the application of the methods proposed A group of similar examples are used throughout the book to help the reader assimilate the material more easily The monograph concentrates on the use of methods for which a cyber physical systems infrastructure is required The methods are computationally heavy and require mobile sensors and actuators with communications abilities Application examples cover fields from environmental science to national security so that readers are encouraged to link the ideas of cyber physical systems with their own research   MODA 7 - Advances in Model-Oriented Design and Analysis Alessandro Di Bucchianico,Henning Läuter,Henry P. Wynn,2012-12-06 The volume contains the proceedings of the 7th Workshop on Model Oriented Design and Analysis which has had the purpose of bringing together leading researchers in Eastern and Western Europe for an in depth discussion of the optimal design of experiments The papers are representative of the latest developments concerning non linear models computational algorithms and important applications especially to medical statistics   Proceedings of the Steklov Institute of Mathematics ,2000   **21st European Symposium on Computer Aided Process Engineering** E. N. Pistikopoulos,Michael C. Georgiadis,Antonis C. Kokossis,2011-07-21 The European Symposium on Computer Aided Process Engineering ESCAPE series presents the latest innovations and achievements of leading professionals from the industrial and academic communities The ESCAPE series serves as a forum for engineers scientists researchers managers and students to present and discuss progress being made in the area of computer aided process engineering CAPE European industries large and small are bringing innovations into our lives whether in the form of new technologies to address environmental problems new products to make our homes more comfortable and energy efficient or new therapies to improve the health and well being of European citizens Moreover the European Industry needs to undertake research and technological initiatives in response to humanity s Grand Challenges described in the declaration of Lund namely Global Warming Tightening Supplies of Energy Water and Food Ageing Societies Public Health Pandemics and Security Thus the Technical Theme of ESCAPE 21 will be Process Systems Approaches for Addressing Grand Challenges in Energy Environment Health Bioprocessing Nanotechnologies

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