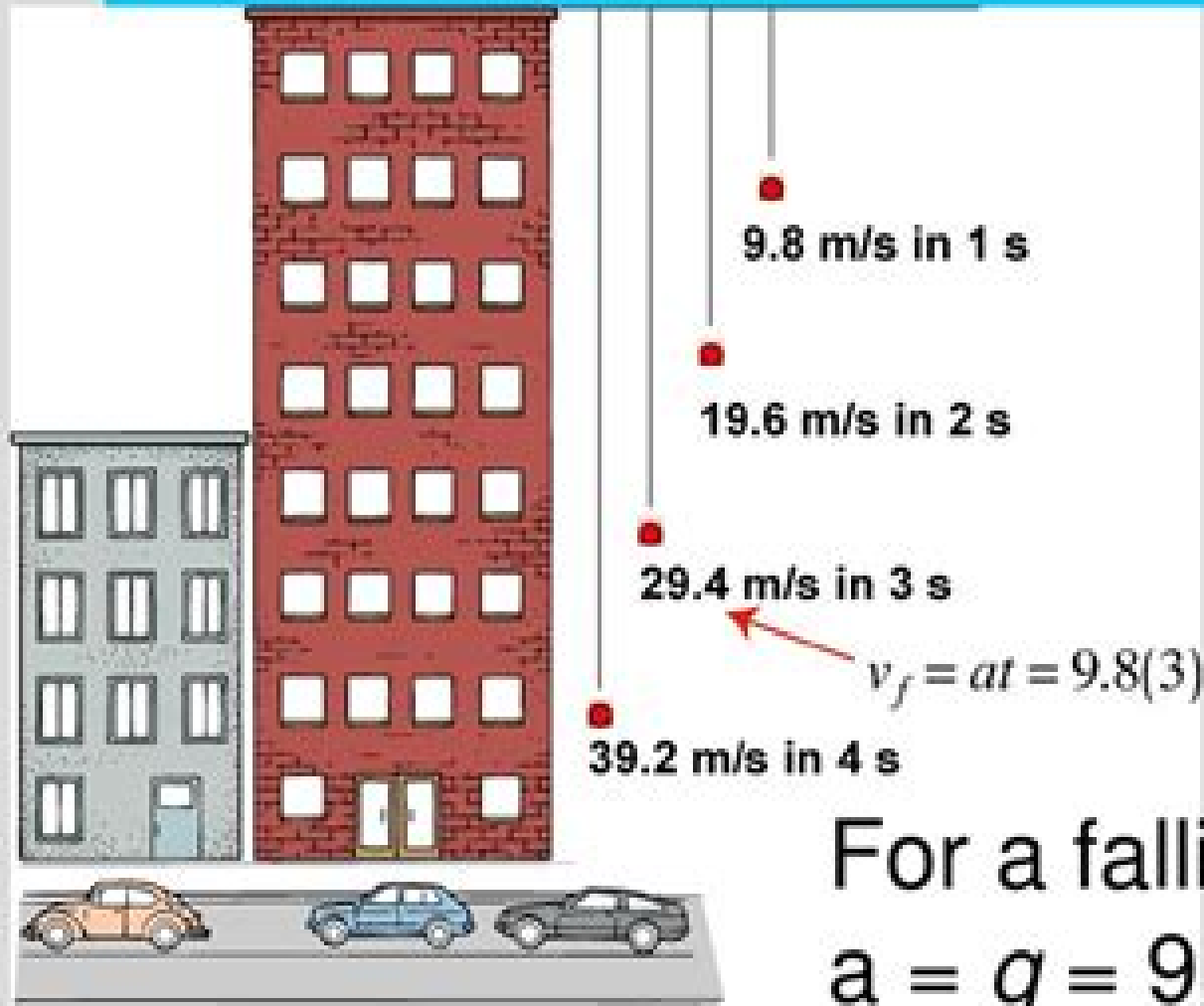


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Symbolic Regression Gabriel Kronberger, Bogdan Burlacu, Michael Kommenda, Stephan M. Winkler, Michael Affenzeller, 2024-08-16 Symbolic regression SR is one of the most powerful machine learning techniques that produces transparent models searching the space of mathematical expressions for a model that represents the relationship between the predictors and the dependent variable without the need of taking assumptions about the model structure Currently the most prevalent learning algorithms for SR are based on genetic programming GP an evolutionary algorithm inspired from the well known principles of natural selection This book is an in depth guide to GP for SR discussing its advanced techniques as well as examples of applications in science and engineering The basic idea of GP is to evolve a population of solution candidates in an iterative generational manner by repeated application of selection crossover mutation and replacement thus allowing the model structure coefficients and input variables to be searched simultaneously Given that explainability and interpretability are key elements for integrating humans into the loop of learning in AI increasing the capacity for data scientists to understand internal algorithmic processes and their resultant models has beneficial implications for the learning process as a whole This book represents a practical guide for industry professionals and students across a range of disciplines particularly data science engineering and applied mathematics Focused on state of the art SR methods and providing ready to use recipes this book is especially appealing to those working with empirical or semi analytical models in science and engineering

Fundamentals and Applications of AI: An Interdisciplinary Perspective Víctor M. Eguíluz, Claudio Mirasso, Raul Vicente, 2021-03-03 **Experimental Econophysics** Ji-Ping Huang, 2014-08-05 Experimental Econophysics describes the method of controlled human experiments which is developed by physicists to study some problems in economics or finance namely stylized facts fluctuation phenomena herd behavior contrarian behavior hedge behavior cooperation business cycles partial information risk management and stock prediction Experimental econophysics together with empirical econophysics are two branches of the field of econophysics The latter one has been extensively discussed in the existing books while the former one has been seldom touched In this book the author will focus on the branch of experimental econophysics Empirical econophysics is based on the analysis of data in real markets by using some statistical tools borrowed from traditional statistical physics Differently inspired by the role of controlled experiments and system modelling for computer simulations and or analytical theory in developing modern physics experimental econophysics specially relies on controlled human experiments in the laboratory producing data for analysis together with agent based modelling for computer simulations and or analytical theory with an aim at revealing the general cause effect relationship between specific parameters and emergent properties of real economic financial markets This book covers the basic concepts experimental methods modelling approaches and latest progress in the field of experimental econophysics

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science on theory and practice of time series analysis using MATLAB **Harnessing the Power of Data Acquisition and Display for Modern Applications** Pasquale De Marco, 2025-07-23 Harness the power of data acquisition and display systems with this comprehensive guidebook designed to empower professionals across a wide range of fields From engineering and science to business and medicine this book provides a deep dive into the principles and applications of data acquisition and display technologies With a focus on practical applications readers will gain a thorough understanding of hardware software and techniques used in data acquisition systems Detailed explanations cover signal conditioning sampling rates resolution considerations and more Delve into advanced data acquisition techniques such as multi channel data acquisition high speed data acquisition wireless data acquisition cloud based data acquisition and the Industrial Internet of Things IIoT These cutting edge technologies are transforming the way data is collected and analyzed opening up new possibilities for innovation This guidebook provides a comprehensive overview of data display techniques including types of data displays principles of graphical user interfaces GUIs and effective data visualization design principles Learn how to effectively present data for analysis decision making and communication Explore real world applications of data acquisition and display systems across diverse industries Case studies and examples demonstrate how these technologies are used to solve complex problems optimize processes and drive progress in areas such as engineering science business and healthcare Whether you are an engineer scientist researcher or business professional this book provides an invaluable resource to unlock the full potential of data acquisition and display systems Empower yourself with the knowledge and skills necessary to harness the power of data for informed decision making problem solving and driving innovation in your field If you like this book write a review [Scientific Foundations of Crime Scene Reconstruction](#) Ph.D., Jon J. Nordby, 2012-12-17 Philosophers of science have long used reconstructive reasoning to develop historical explanations covering the origins of natural phenomenon The application of the scientific method is a powerful tool for solving crimes through reconstruction of the events Scientific Foundations of Crime Scene Reconstruction Introducing Method to Mayhem demonst **Mathematical Modeling in Biology** Shandelle M. Henson, James L. Hayward, 2022-12-29 Mathematical Modeling in Biology A Research Methods Approach is a textbook written primarily for advanced mathematics and science undergraduate students and graduate level biology students Although the applications center on ecology the expertise of the authors the methodology can be imported to any other science including social science and economics The aim of the book beyond being a useful aid to teaching and learning the core modeling skills needed for mathematical biology is to encourage students to think deeply and clearly about the meaning of mathematics in science and to learn significant research methods Most importantly it is hoped that students will experience some of the excitement of doing research Features Minimal pre requisites beyond a solid background in calculus such as a calculus I course Suitable for upper division mathematics and sciences students and graduate level biology students Provides sample MATLAB codes and instruction in Appendices along with datasets available

on <https://bit.ly/3fcLF3D> **Numeric Computation and Statistical Data Analysis on the Java Platform** Sergei V. Chekanov, 2016-03-23 Numerical computation knowledge discovery and statistical data analysis integrated with powerful 2D and 3D graphics for visualization are the key topics of this book The Python code examples powered by the Java platform can easily be transformed to other programming languages such as Java Groovy Ruby and BeanShell This book equips the reader with a computational platform which unlike other statistical programs is not limited by a single programming language The author focuses on practical programming aspects and covers a broad range of topics from basic introduction to the Python language on the Java platform Jython to descriptive statistics symbolic calculations neural networks non linear regression analysis and many other data mining topics He discusses how to find regularities in real world data how to classify data and how to process data for knowledge discoveries The code snippets are so short that they easily fit into single pages **Numeric Computation and Statistical Data Analysis on the Java Platform** is a great choice for those who want to learn how statistical data analysis can be done using popular programming languages who want to integrate data analysis algorithms in full scale applications and deploy such calculations on the web pages or computational servers regardless of their operating system It is an excellent reference for scientific computations to solve real world problems using a comprehensive stack of open source Java libraries included in the DataMelt DMelt project and will be appreciated by many data analysis scientists engineers and students

A Den of Inquiry Tim Erickson, Bryan Cooley, 2006 **Handbook on Information Technologies for Education and Training** Heimo H. Adelsberger, Betty Collis, Jan Martin Pawlowski, 2013-03-09 Information Technologies for Education and Training have gained increasing attention and significance in the past decade Accordingly the availability of an enormous amount of information sources through the Internet the technological progress in the ICT sector and an increasing flexibility in organizations and enterprises have accelerated the information and knowledge growth in our society Knowledge and Lifelong Learning have become critical success factors for the long term positioning on the global market Recent mergers of globally distributed enterprises show that knowledge has to be available and transferable within a short time frame Global flexible and service oriented organizations need highly qualified employees These trends also show the rapidly growing significance of new aspects of basic and further education Traditional education ending with a graduation will be complemented by a lifelong learning process Every individual is required to continuously learn new and changing knowledge Consequently the support of learning processes through innovative technologies becomes an elementary component of every educational level The Handbook is a comprehensive guide for researchers and practitioners working with Educational Technologies Its overall goal is to enable the reader to gain a deep understanding of past current and future research and applications in the field of Educational Technologies It will provide a reference source for both practitioners and researchers in the enterprise and educational sector From a research perspective the reader will gain an in depth understanding of complex theories strategies concepts and methods of Educational Technologies *Visual Data and Their Use in Science*

Education Jon Pedersen, Kevin D. Finson, 2013-04-01 Visual Data in Science Education builds upon previous work done by the editors to bring some definition to the meaning of visual data as it relates to education and highlighted the breadth of types and uses of visual data across the major academic disciplines In this book the editors have brought this focus specifically to science education through the contributions of colleagues in the field who actively research about and engage in teaching with visual data The book begins by examining how the brain functions with respect to processing visual data then explores models of conceptual frameworks which then leads into how related ideas are actuated in education settings ranging from elementary science classrooms to college environments As a whole this book fosters a more coherent image of the multifaceted process of science teaching and learning that is informed by current understandings of science knowledge construction the scientific enterprise and the millennium student as they relate to visual data **Worldviews** Richard DeWitt, 2011-04-08 Updated throughout and with three entirely new chapters Worldviews An Introduction to the History and Philosophy of Science Second Edition furthers its reputation as the definitive introductory text on the historical developments and philosophical issues that inform our scientific view of the world around us Represents an innovative introduction to the history and philosophy of science designed especially for those coming to the subject for the first time Updated new edition features the addition of chapters focusing on scientific laws evolutionary theory and implications of evolution Covers the key historical developments and philosophical themes that have impacted our scientific view of the world around us Analyzes the transitions from the Aristotelian worldview to the Newtonian worldview to a new and currently developing worldview Explores challenges to the Western scientific worldview brought on by recent discoveries Blackwell Handbook of Childhood Cognitive Development Usha Goswami, 2008-04-15 This definitive volume provides state of the art summaries of current research by leading specialists in different areas of cognitive development Forms part of a series of four Blackwell Handbooks in Developmental Psychology spanning infancy to adulthood Covers all the major topics in research and theory about childhood cognitive development Synthesizes the latest research findings in an accessible manner Includes chapters on abnormal cognitive development and theoretical perspectives as well as basic research topics Now available in full text online via xreferplus the award winning reference library on the web from xrefer For more information visit www.xreferplus.com **New Geometric Data Structures for Collision Detection and Haptics** René Weller, 2013-07-12 Starting with novel algorithms for optimally updating bounding volume hierarchies of objects undergoing arbitrary deformations the author presents a new data structure that allows for the first time the computation of the penetration volume The penetration volume is related to the water displacement of the overlapping region and thus corresponds to a physically motivated and continuous force The practicability of the approaches used is shown by realizing new applications in the field of robotics and haptics including a user study that evaluates the influence of the degrees of freedom in complex haptic interactions New Geometric Data Structures for Collision Detection and Haptics closes by proposing an open source benchmarking suite that

evaluates both the performance and the quality of the collision response in order to guarantee a fair comparison of different collision detection algorithms Required in the fields of computer graphics physically based simulations computer animations robotics and haptics collision detection is a fundamental problem that arises every time we interact with virtual objects Some of the open challenges associated with collision detection include the handling of deformable objects the stable computation of physically plausible contact information and the extremely high frequencies that are required for haptic rendering New Geometric Data Structures for Collision Detection and Haptics presents new solutions to all of these challenges and will prove to be a valuable resource for researchers and practitioners of collision detection in the haptics robotics and computer graphics and animation domains

Search for Exotic Higgs Boson Decays to Merged Diphotons

Michael Andrews, 2023-03-02 This book describes the first application at CMS of deep learning algorithms trained directly on low level raw detector data or so called end to end physics reconstruction Growing interest in searches for exotic new physics in the CMS collaboration at the Large Hadron Collider at CERN has highlighted the need for a new generation of particle reconstruction algorithms For many exotic physics searches sensitivity is constrained not by the ability to extract information from particle level data but by inefficiencies in the reconstruction of the particle level quantities themselves The technique achieves a breakthrough in the reconstruction of highly merged photon pairs that are completely unresolved in the CMS detector This newfound ability is used to perform the first direct search for exotic Higgs boson decays to a pair of hypothetical light scalar particles $H \rightarrow aa$ each subsequently decaying to a pair of highly merged photons $aa \rightarrow \gamma\gamma$ an analysis once thought impossible to perform The book concludes with an outlook on potential new exotic searches made accessible by this new reconstruction paradigm

The Sciences

James Trefil, Robert M. Hazen, 2016-09-13 This text is an unbound three hole punched version The Sciences An Integrated Approach Binder Ready Version 8th Edition by James Trefil and Robert Hazen uses an approach that recognizes that science forms a seamless web of knowledge about the universe This text fully integrates physics chemistry astronomy earth sciences and biology and emphasizes general principles and their application to real world situations The goal of the text is to help students achieve scientific literacy Applauded by students and instructors for its easy to read style and detail appropriate for non science majors the eighth edition has been updated to bring the most up to date coverage to the students in all areas of science

Quantitative Understanding of Biosystems

Thomas M. Nordlund, Peter M. Hoffmann, 2019-04-16 Praise for the prior edition The author has done a magnificent job this book is highly recommended for introducing biophysics to the motivated and curious undergraduate student Contemporary Physics a terrific text will enable students to understand the significance of biological parameters through quantitative examples a modern way of learning biophysics American Journal of Physics A superb pedagogical textbook Full color illustrations aid students in their understanding Midwest Book Review This new edition provides a complete update to the most accessible yet thorough introduction to the physical and quantitative aspects of biological systems and processes

involving macromolecules subcellular structures and whole cells It includes two brand new chapters covering experimental techniques especially atomic force microscopy complementing the updated coverage of mathematical and computational tools The authors have also incorporated additions to the multimedia component of video clips and animations as well as interactive diagrams and graphs Key Features Illustrates biological examples with estimates and calculations of biophysical parameters Features two brand new chapters on experimental methods a general overview and focused introduction to atomic force microscopy Includes new coverage of important topics such as measures of DNA twist images of nanoparticle assembly and novel optical and electron nanoscopy Provides a guide to investigating current expert biophysical research Enhanced self study problems and an updated glossary of terms **Resources in education** ,1986-11 Computers in Education ,1990 *Critical remarks on current practices of data article publishing: Issues, challenges, and recommendations* Quan-Hoang Vuong,Viet-Phuong La,Minh-Hoang Nguyen,2024-08-19 The contribution of the data paper publishing paradigm to the knowledge generation and validation processes is becoming substantial and pivotal In this paper through the information processing perspective of Mindsponge Theory we discuss how the data article publishing system serves as a filtering mechanism for quality control of the increasingly chaotic datasphere The overemphasis on machine actionality and technical standards presents some shortcomings and limitations of the data article publishing system such as the lack of consideration of humanistic values radical race for big data and inadequate use of expertise in data evaluation Without addressing the shortcomings and limitations the reusability of data will be hindered and scientific investment to facilitate data sharing will be wasted Thus we suggest that the current data paper publishing paradigm needs to be updated with a new philosophy of data

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